



Full wwPDB EM Validation Report ⓘ

Jan 18, 2026 – 12:53 AM JST

PDB ID : 9VNK / pdb_00009vnk
EMDB ID : EMD-65211
Title : Cryo-EM structure of hnRAC1-2,8beta fibril polymorph2
Authors : Li, Y.S.; Li, D.N.; Dai, B.
Deposited on : 2025-06-30
Resolution : 3.38 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : **FAILED**
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics : **NOT EXECUTED**
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.47

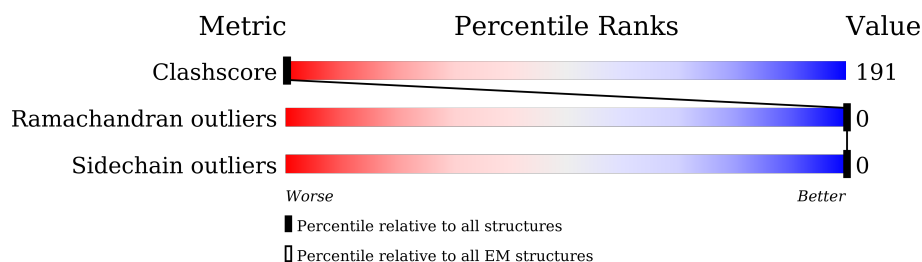
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.38 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



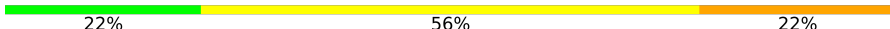
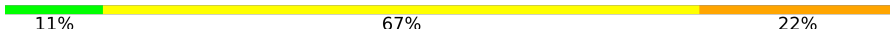
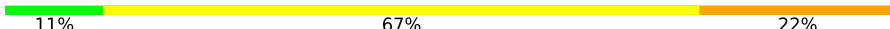
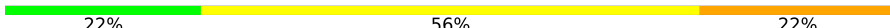
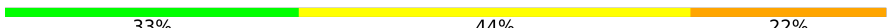
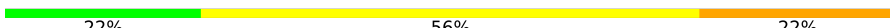
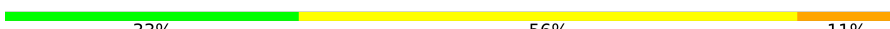
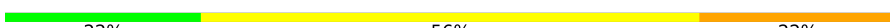
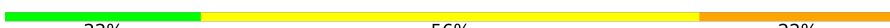
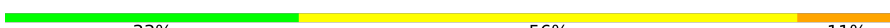
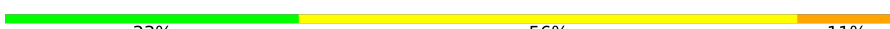
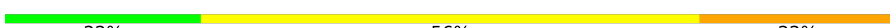
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	0	9	22% 56% 22%
1	1	9	22% 56% 22%
1	A	9	56% 22% 22%
1	B	9	44% 44% 11%
1	C	9	56% 22% 22%
1	D	9	22% 56% 22%
1	E	9	44% 44% 11%
1	F	9	22% 56% 22%
1	G	9	11% 67% 22%

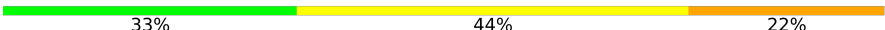
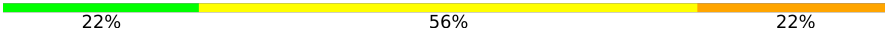
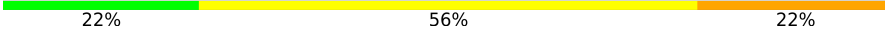
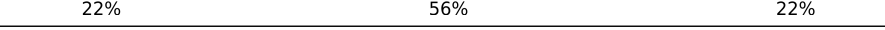
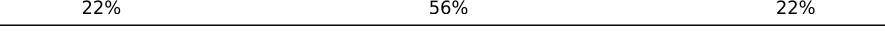
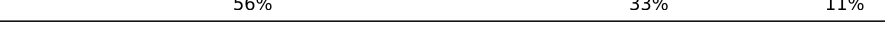
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Mol	Chain	Length	Quality of chain
1	H	9	
1	I	9	
1	J	9	
1	K	9	
1	L	9	
1	M	9	
1	N	9	
1	O	9	
1	P	9	
1	Q	9	
1	R	9	
1	S	9	
1	T	9	
1	U	9	
1	V	9	
1	W	9	
1	X	9	
1	Y	9	
1	Z	9	
1	a	9	
1	b	9	
1	c	9	
1	d	9	
1	e	9	
1	f	9	

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Mol	Chain	Length	Quality of chain
1	g	9	
1	h	9	
1	i	9	
1	j	9	
1	k	9	
1	l	9	
1	m	9	
1	n	9	
1	o	9	
1	p	9	
1	q	9	
1	r	9	
1	s	9	
1	t	9	
1	u	9	
1	v	9	
1	w	9	
1	x	9	
1	y	9	
1	z	9	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	SFE	0	216	-	-	X	-
1	SFE	1	216	-	-	X	-
1	SFE	A	210	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	SFE	A	216	-	-	X	-
1	SFE	B	210	-	-	X	-
1	SFE	B	216	-	-	X	-
1	SFE	C	210	-	-	X	-
1	SFE	C	216	-	-	X	-
1	SFE	D	210	-	-	X	-
1	SFE	D	216	-	-	X	-
1	SFE	E	210	-	-	X	-
1	SFE	E	216	-	-	X	-
1	SFE	F	210	-	-	X	-
1	SFE	F	216	-	-	X	-
1	SFE	G	210	-	-	X	-
1	SFE	G	216	-	-	X	-
1	SFE	H	210	-	-	X	-
1	SFE	I	210	-	-	X	-
1	SFE	I	216	-	-	X	-
1	SFE	J	210	-	-	X	-
1	SFE	J	216	-	-	X	-
1	SFE	K	210	-	-	X	-
1	SFE	L	210	-	-	X	-
1	SFE	L	216	-	-	X	-
1	SFE	M	210	-	-	X	-
1	SFE	M	216	-	-	X	-
1	SFE	N	210	-	-	X	-
1	SFE	N	216	-	-	X	-
1	SFE	O	210	-	-	X	-
1	SFE	O	216	-	-	X	-
1	SFE	P	210	-	-	X	-
1	SFE	P	216	-	-	X	-
1	SFE	Q	216	-	-	X	-
1	SFE	R	216	-	-	X	-
1	SFE	S	210	-	-	X	-
1	SFE	S	216	-	-	X	-
1	SFE	T	210	-	-	X	-
1	SFE	T	216	-	-	X	-
1	SFE	U	210	-	-	X	-
1	SFE	U	216	-	-	X	-
1	SFE	V	210	-	-	X	-
1	SFE	V	216	-	-	X	-
1	SFE	W	210	-	-	X	-
1	SFE	W	216	-	-	X	-
1	SFE	X	210	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	SFE	X	216	-	-	X	-
1	SFE	Y	210	-	-	X	-
1	SFE	Y	216	-	-	X	-
1	SFE	Z	210	-	-	X	-
1	SFE	Z	216	-	-	X	-
1	SFE	a	210	-	-	X	-
1	SFE	a	216	-	-	X	-
1	SFE	b	210	-	-	X	-
1	SFE	b	216	-	-	X	-
1	SFE	c	210	-	-	X	-
1	SFE	c	216	-	-	X	-
1	SFE	d	210	-	-	X	-
1	SFE	d	216	-	-	X	-
1	SFE	e	210	-	-	X	-
1	SFE	e	216	-	-	X	-
1	SFE	f	210	-	-	X	-
1	SFE	f	216	-	-	X	-
1	SFE	g	210	-	-	X	-
1	SFE	h	210	-	-	X	-
1	SFE	i	210	-	-	X	-
1	SFE	i	216	-	-	X	-
1	SFE	j	210	-	-	X	-
1	SFE	j	216	-	-	X	-
1	SFE	k	210	-	-	X	-
1	SFE	k	216	-	-	X	-
1	SFE	l	210	-	-	X	-
1	SFE	l	216	-	-	X	-
1	SFE	m	210	-	-	X	-
1	SFE	n	210	-	-	X	-
1	SFE	o	210	-	-	X	-
1	SFE	o	216	-	-	X	-
1	SFE	p	210	-	-	X	-
1	SFE	p	216	-	-	X	-
1	SFE	q	210	-	-	X	-
1	SFE	q	216	-	-	X	-
1	SFE	r	210	-	-	X	-
1	SFE	r	216	-	-	X	-
1	SFE	s	210	-	-	X	-
1	SFE	s	216	-	-	X	-
1	SFE	t	210	-	-	X	-
1	SFE	t	216	-	-	X	-
1	SFE	u	210	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	SFE	u	216	-	-	X	-
1	SFE	v	210	-	-	X	-
1	SFE	v	216	-	-	X	-
1	SFE	w	210	-	-	X	-
1	SFE	w	216	-	-	X	-
1	SFE	x	210	-	-	X	-
1	SFE	x	216	-	-	X	-
1	SFE	y	216	-	-	X	-
1	SFE	z	216	-	-	X	-

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 3348 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	A	9	Total	C	N	O	0	0
			62	38	11	13		
1	D	9	Total	C	N	O	0	0
			62	38	11	13		
1	H	9	Total	C	N	O	0	0
			62	38	11	13		
1	I	9	Total	C	N	O	0	0
			62	38	11	13		
1	L	9	Total	C	N	O	0	0
			62	38	11	13		
1	O	9	Total	C	N	O	0	0
			62	38	11	13		
1	Q	9	Total	C	N	O	0	0
			62	38	11	13		
1	B	9	Total	C	N	O	0	0
			62	38	11	13		
1	G	9	Total	C	N	O	0	0
			62	38	11	13		
1	C	9	Total	C	N	O	0	0
			62	38	11	13		
1	F	9	Total	C	N	O	0	0
			62	38	11	13		
1	K	9	Total	C	N	O	0	0
			62	38	11	13		
1	M	9	Total	C	N	O	0	0
			62	38	11	13		
1	N	9	Total	C	N	O	0	0
			62	38	11	13		
1	P	9	Total	C	N	O	0	0
			62	38	11	13		
1	R	9	Total	C	N	O	0	0
			62	38	11	13		
1	E	9	Total	C	N	O	0	0
			62	38	11	13		

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Mol	Chain	Residues	Atoms				AltConf	Trace
1	J	9	Total	C	N	O	0	0
			62	38	11	13		
1	S	9	Total	C	N	O	0	0
			62	38	11	13		
1	Y	9	Total	C	N	O	0	0
			62	38	11	13		
1	g	9	Total	C	N	O	0	0
			62	38	11	13		
1	i	9	Total	C	N	O	0	0
			62	38	11	13		
1	o	9	Total	C	N	O	0	0
			62	38	11	13		
1	u	9	Total	C	N	O	0	0
			62	38	11	13		
1	y	9	Total	C	N	O	0	0
			62	38	11	13		
1	U	9	Total	C	N	O	0	0
			62	38	11	13		
1	e	9	Total	C	N	O	0	0
			62	38	11	13		
1	W	9	Total	C	N	O	0	0
			62	38	11	13		
1	c	9	Total	C	N	O	0	0
			62	38	11	13		
1	m	9	Total	C	N	O	0	0
			62	38	11	13		
1	q	9	Total	C	N	O	0	0
			62	38	11	13		
1	s	9	Total	C	N	O	0	0
			62	38	11	13		
1	w	9	Total	C	N	O	0	0
			62	38	11	13		
1	0	9	Total	C	N	O	0	0
			62	38	11	13		
1	a	9	Total	C	N	O	0	0
			62	38	11	13		
1	k	9	Total	C	N	O	0	0
			62	38	11	13		
1	T	9	Total	C	N	O	0	0
			62	38	11	13		
1	Z	9	Total	C	N	O	0	0
			62	38	11	13		

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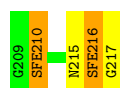
Mol	Chain	Residues	Atoms				AltConf	Trace
1	h	9	Total 62	C 38	N 11	O 13	0	0
1	j	9	Total 62	C 38	N 11	O 13	0	0
1	p	9	Total 62	C 38	N 11	O 13	0	0
1	v	9	Total 62	C 38	N 11	O 13	0	0
1	z	9	Total 62	C 38	N 11	O 13	0	0
1	V	9	Total 62	C 38	N 11	O 13	0	0
1	f	9	Total 62	C 38	N 11	O 13	0	0
1	X	9	Total 62	C 38	N 11	O 13	0	0
1	d	9	Total 62	C 38	N 11	O 13	0	0
1	n	9	Total 62	C 38	N 11	O 13	0	0
1	r	9	Total 62	C 38	N 11	O 13	0	0
1	t	9	Total 62	C 38	N 11	O 13	0	0
1	x	9	Total 62	C 38	N 11	O 13	0	0
1	1	9	Total 62	C 38	N 11	O 13	0	0
1	b	9	Total 62	C 38	N 11	O 13	0	0
1	l	9	Total 62	C 38	N 11	O 13	0	0

3 Residue-property plots [i](#)

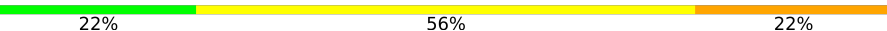
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain A: 



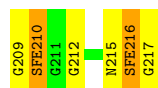
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain D: 

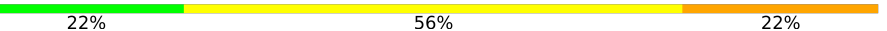


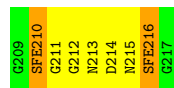
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain H: 



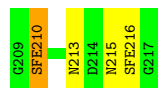
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain I: 

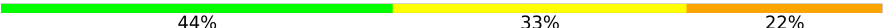


- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain L: 

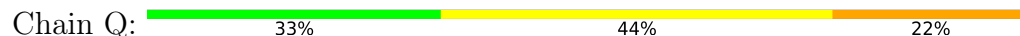


- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

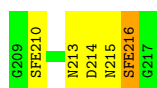
Chain O: 



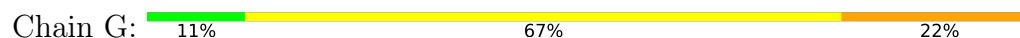
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



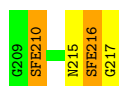
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



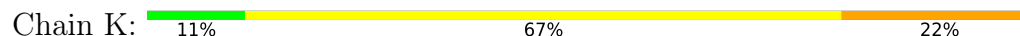
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

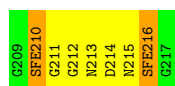


- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



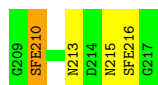
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY





- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain N: 56% 33% 11%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain P: 33% 44% 22%



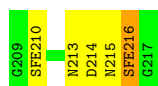
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain R: 22% 56% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain E: 44% 44% 11%



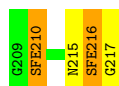
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain J: 11% 67% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain S: 56% 22% 22%



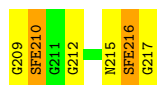
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain Y: 22% 56% 22%



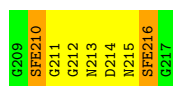
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain g: 33% 44% 22%



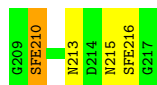
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain i: 22% 56% 22%



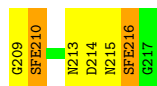
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain o: 56% 33% 11%



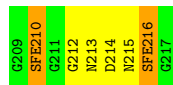
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain u: 33% 44% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain y: 33% 44% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain U: 33% 56% 11%



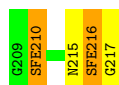
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain e: 11% 67% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain W: 56% 22% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain c: 22% 56% 22%



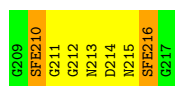
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain m: 11% 67% 22%



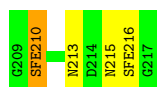
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain q: 22% 56% 22%



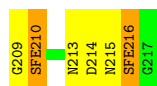
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain s: 56% 33% 11%



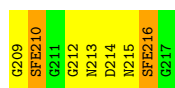
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain w: 33% 44% 22%

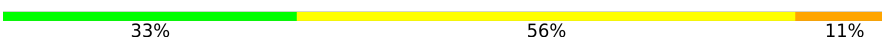


- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain 0: 22% 56% 22%

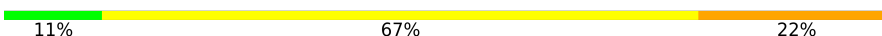


- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain a:  33% 56% 11%



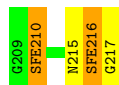
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain k:  11% 67% 22%

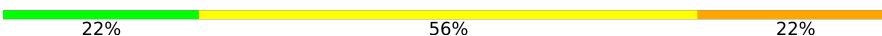


- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain T:  56% 22% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain Z:  22% 56% 22%

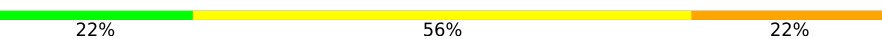


- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain h:  33% 44% 22%



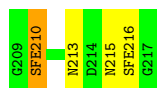
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain j:  22% 56% 22%



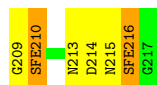
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain p:  56% 33% 11%



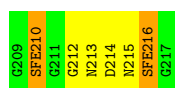
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain v: 33% 44% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain z: 33% 44% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain V: 33% 56% 11%



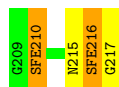
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain f: 11% 67% 22%



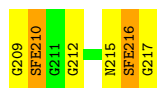
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain X: 56% 22% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

Chain d: 33% 44% 22%

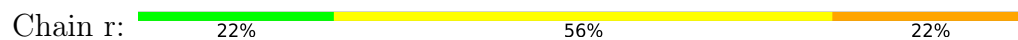


- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY

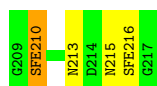
Chain n: 11% 67% 22%



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



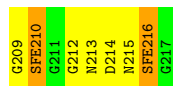
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



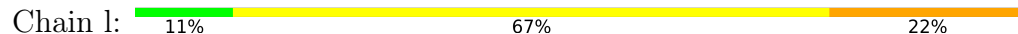
- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



- Molecule 1: GLY-SFE-GLY-GLY-ASN-ASP-ASN-SFE-GLY



4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=-0.96°, rise=4.81 Å, axial sym=C1	Depositor
Number of segments used	8973	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	55	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: SFE

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	0	1.04	0/37	1.17	0/44
1	1	1.04	0/37	1.17	0/44
1	A	0.62	0/37	0.99	0/44
1	B	1.08	0/37	0.98	0/44
1	C	0.62	0/37	0.99	0/44
1	D	0.81	0/37	0.75	0/44
1	E	1.08	0/37	0.98	0/44
1	F	0.81	0/37	0.75	0/44
1	G	1.19	0/37	1.75	0/44
1	H	0.74	0/37	0.99	0/44
1	I	1.25	0/37	1.46	0/44
1	J	1.18	0/37	1.75	0/44
1	K	0.74	0/37	0.99	0/44
1	L	1.00	0/37	1.22	0/44
1	M	1.26	0/37	1.46	0/44
1	N	0.99	0/37	1.21	0/44
1	O	1.08	0/37	1.63	0/44
1	P	1.07	0/37	1.62	0/44
1	Q	1.03	0/37	1.18	0/44
1	R	1.02	0/37	1.18	0/44
1	S	0.62	0/37	0.99	0/44
1	T	0.62	0/37	0.98	0/44
1	U	1.07	0/37	0.98	0/44
1	V	1.08	0/37	0.98	0/44
1	W	0.62	0/37	0.98	0/44
1	X	0.62	0/37	0.98	0/44
1	Y	0.81	0/37	0.76	0/44
1	Z	0.82	0/37	0.75	0/44
1	a	1.08	0/37	0.98	0/44
1	b	1.07	0/37	0.98	0/44
1	c	0.81	0/37	0.75	0/44
1	d	0.80	0/37	0.75	0/44

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	e	1.19	0/37	1.75	0/44
1	f	1.19	0/37	1.75	0/44
1	g	0.74	0/37	0.99	0/44
1	h	0.73	0/37	0.99	0/44
1	i	1.25	0/37	1.47	0/44
1	j	1.24	0/37	1.47	0/44
1	k	1.19	0/37	1.74	0/44
1	l	1.19	0/37	1.74	0/44
1	m	0.73	0/37	1.00	0/44
1	n	0.74	0/37	0.99	0/44
1	o	0.99	0/37	1.22	0/44
1	p	1.01	0/37	1.22	0/44
1	q	1.25	0/37	1.46	0/44
1	r	1.25	0/37	1.46	0/44
1	s	0.99	0/37	1.22	0/44
1	t	0.99	0/37	1.22	0/44
1	u	1.08	0/37	1.62	0/44
1	v	1.08	0/37	1.63	0/44
1	w	1.08	0/37	1.63	0/44
1	x	1.08	0/37	1.63	0/44
1	y	1.03	0/37	1.18	0/44
1	z	1.04	0/37	1.18	0/44
All	All	1.00	0/1998	1.26	0/2376

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	62	0	43	34	0
1	1	62	0	43	24	0
1	A	62	0	43	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	62	0	43	31	0
1	C	62	0	43	29	0
1	D	62	0	43	44	0
1	E	62	0	43	30	0
1	F	62	0	43	44	0
1	G	62	0	43	31	0
1	H	62	0	43	27	0
1	I	62	0	43	43	0
1	J	62	0	43	31	0
1	K	62	0	43	33	0
1	L	62	0	43	24	0
1	M	62	0	43	44	0
1	N	62	0	43	25	0
1	O	62	0	43	35	0
1	P	62	0	43	37	0
1	Q	62	0	43	20	0
1	R	62	0	43	22	0
1	S	62	0	43	53	0
1	T	62	0	43	31	0
1	U	62	0	43	56	0
1	V	62	0	43	33	0
1	W	62	0	43	51	0
1	X	62	0	43	30	0
1	Y	62	0	43	63	0
1	Z	62	0	43	45	0
1	a	62	0	43	53	0
1	b	62	0	43	31	0
1	c	62	0	43	62	0
1	d	62	0	43	43	0
1	e	62	0	43	47	0
1	f	62	0	43	30	0
1	g	62	0	43	55	0
1	h	62	0	43	33	0
1	i	62	0	43	60	0
1	j	62	0	43	44	0
1	k	62	0	43	49	0
1	l	62	0	43	32	0
1	m	62	0	43	62	0
1	n	62	0	43	36	0
1	o	62	0	43	38	0
1	p	62	0	43	25	0
1	q	62	0	43	61	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	r	62	0	43	45	0
1	s	62	0	43	41	0
1	t	62	0	43	28	0
1	u	62	0	43	58	0
1	v	62	0	43	36	0
1	w	62	0	43	62	0
1	x	62	0	43	37	0
1	y	62	0	43	29	0
1	z	62	0	43	20	0
All	All	3348	0	2322	1083	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 191.

All (1083) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:210:SFE:CE1	1:L:210:SFE:HE1	1.52	1.40
1:i:210:SFE:CE1	1:o:210:SFE:HE1	1.52	1.40
1:j:210:SFE:CE1	1:p:210:SFE:HE1	1.52	1.40
1:M:210:SFE:CE1	1:N:210:SFE:HE1	1.52	1.36
1:q:210:SFE:CE1	1:s:210:SFE:HE1	1.52	1.35
1:r:210:SFE:CE1	1:t:210:SFE:HE1	1.52	1.35
1:i:216:SFE:CD1	1:j:216:SFE:HD2	1.59	1.33
1:i:216:SFE:HE1	1:j:216:SFE:CE2	1.59	1.33
1:e:210:SFE:HD1	1:f:210:SFE:CD2	1.59	1.33
1:e:210:SFE:CE1	1:f:210:SFE:HE2	1.59	1.32
1:g:210:SFE:CE1	1:h:210:SFE:HD2	1.57	1.32
1:g:210:SFE:HE1	1:h:210:SFE:CD2	1.58	1.32
1:m:210:SFE:CD1	1:n:210:SFE:HD2	1.60	1.32
1:q:216:SFE:HE1	1:r:216:SFE:CE2	1.59	1.32
1:M:216:SFE:CD1	1:q:216:SFE:HD2	1.59	1.32
1:q:216:SFE:CD1	1:r:216:SFE:HD2	1.59	1.32
1:k:210:SFE:HD1	1:l:210:SFE:CD2	1.58	1.32
1:M:216:SFE:HE1	1:q:216:SFE:CE2	1.59	1.31
1:m:210:SFE:HE1	1:n:210:SFE:CE2	1.60	1.31
1:k:210:SFE:CE1	1:l:210:SFE:HE2	1.58	1.31
1:K:210:SFE:CE1	1:m:210:SFE:HD2	1.60	1.30
1:G:210:SFE:HD1	1:e:210:SFE:CD2	1.62	1.30
1:G:210:SFE:CE1	1:e:210:SFE:HE2	1.62	1.29
1:H:210:SFE:HE1	1:g:210:SFE:CD2	1.61	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:216:SFE:CD1	1:i:216:SFE:HD2	1.63	1.29
1:K:210:SFE:CD1	1:m:210:SFE:HD2	1.62	1.29
1:J:210:SFE:CE1	1:k:210:SFE:HE2	1.60	1.29
1:J:210:SFE:HD1	1:k:210:SFE:CD2	1.60	1.29
1:I:216:SFE:HE1	1:i:216:SFE:CE2	1.63	1.29
1:K:210:SFE:HE1	1:m:210:SFE:CE2	1.62	1.29
1:m:210:SFE:CE1	1:n:210:SFE:HD2	1.60	1.29
1:H:210:SFE:CE1	1:g:210:SFE:HD2	1.60	1.29
1:N:216:SFE:HD2	1:s:216:SFE:CD1	1.63	1.28
1:g:210:SFE:CD1	1:h:210:SFE:HD2	1.61	1.28
1:g:210:SFE:HE1	1:h:210:SFE:CE2	1.62	1.28
1:S:210:SFE:HD2	1:T:210:SFE:CE1	1.63	1.27
1:s:216:SFE:HD2	1:t:216:SFE:CD1	1.63	1.27
1:N:216:SFE:CE2	1:s:216:SFE:HE1	1.64	1.27
1:S:210:SFE:CD2	1:T:210:SFE:HE1	1.63	1.27
1:K:210:SFE:HE1	1:m:210:SFE:CD2	1.61	1.27
1:m:210:SFE:HE1	1:n:210:SFE:CD2	1.61	1.27
1:s:216:SFE:CE2	1:t:216:SFE:HE1	1.64	1.26
1:H:210:SFE:CD1	1:g:210:SFE:HD2	1.64	1.26
1:W:210:SFE:HD2	1:X:210:SFE:CE1	1.64	1.26
1:H:210:SFE:HE1	1:g:210:SFE:CE2	1.64	1.25
1:w:210:SFE:HE2	1:x:210:SFE:CD1	1.66	1.25
1:A:210:SFE:HD2	1:S:210:SFE:CE1	1.64	1.25
1:W:210:SFE:CD2	1:X:210:SFE:HE1	1.64	1.25
1:A:210:SFE:CD2	1:S:210:SFE:HE1	1.63	1.25
1:o:216:SFE:HD2	1:p:216:SFE:CD1	1.65	1.25
1:C:210:SFE:CD2	1:W:210:SFE:HE1	1.66	1.25
1:C:210:SFE:HD2	1:W:210:SFE:CE1	1.66	1.25
1:w:210:SFE:CE2	1:x:210:SFE:HD1	1.66	1.25
1:B:216:SFE:CE1	1:R:216:SFE:HZ	1.67	1.24
1:U:216:SFE:CE1	1:O:216:SFE:HZ	1.67	1.24
1:P:210:SFE:HE2	1:w:210:SFE:CD1	1.67	1.24
1:V:216:SFE:CE1	1:l:216:SFE:HZ	1.67	1.24
1:o:216:SFE:CE2	1:p:216:SFE:HE1	1.66	1.24
1:P:210:SFE:CE2	1:w:210:SFE:HD1	1.68	1.22
1:e:210:SFE:HD1	1:f:210:SFE:CE2	1.69	1.22
1:G:210:SFE:HD1	1:e:210:SFE:CE2	1.70	1.22
1:e:210:SFE:CD1	1:f:210:SFE:HE2	1.70	1.22
1:u:210:SFE:CE2	1:v:210:SFE:HD1	1.68	1.21
1:O:210:SFE:CE2	1:u:210:SFE:HD1	1.69	1.21
1:G:210:SFE:CD1	1:e:210:SFE:HE2	1.71	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:210:SFE:HE2	1:v:210:SFE:CD1	1.67	1.21
1:O:210:SFE:HE2	1:u:210:SFE:CD1	1.69	1.21
1:W:216:SFE:CE2	1:X:216:SFE:HE1	1.69	1.21
1:L:216:SFE:HD2	1:o:216:SFE:CD1	1.69	1.21
1:S:216:SFE:CE2	1:T:216:SFE:HE1	1.68	1.21
1:W:216:SFE:HD2	1:X:216:SFE:CD1	1.69	1.20
1:S:216:SFE:HD2	1:T:216:SFE:CD1	1.69	1.20
1:c:209:GLY:HA3	1:q:212:GLY:HA3	1.20	1.20
1:C:216:SFE:CE2	1:W:216:SFE:HE1	1.70	1.20
1:d:209:GLY:HA3	1:r:212:GLY:HA3	1.20	1.20
1:L:216:SFE:CE2	1:o:216:SFE:HE1	1.70	1.19
1:C:216:SFE:HD2	1:W:216:SFE:CD1	1.71	1.19
1:F:209:GLY:HA3	1:M:212:GLY:HA3	1.20	1.19
1:k:210:SFE:HD1	1:l:210:SFE:CE2	1.72	1.19
1:k:210:SFE:CD1	1:l:210:SFE:HE2	1.73	1.19
1:J:210:SFE:HD1	1:k:210:SFE:CE2	1.72	1.18
1:J:210:SFE:CD1	1:k:210:SFE:HE2	1.73	1.18
1:I:210:SFE:HE1	1:L:210:SFE:CE1	1.73	1.18
1:A:216:SFE:CE2	1:S:216:SFE:HE1	1.71	1.17
1:A:216:SFE:HD2	1:S:216:SFE:CD1	1.72	1.17
1:i:210:SFE:HE1	1:o:210:SFE:CE1	1.73	1.17
1:D:209:GLY:HA3	1:I:212:GLY:HA3	1.20	1.17
1:j:210:SFE:HE1	1:p:210:SFE:CE1	1.73	1.17
1:r:210:SFE:HE1	1:t:210:SFE:CE1	1.73	1.17
1:Y:209:GLY:HA3	1:i:212:GLY:HA3	1.20	1.16
1:q:210:SFE:HE1	1:s:210:SFE:CE1	1.73	1.16
1:M:210:SFE:HE1	1:N:210:SFE:CE1	1.73	1.16
1:Z:209:GLY:HA3	1:j:212:GLY:HA3	1.20	1.15
1:Q:216:SFE:HZ	1:E:216:SFE:CE1	1.76	1.15
1:y:216:SFE:HZ	1:a:216:SFE:CE1	1.76	1.14
1:e:210:SFE:HE1	1:f:210:SFE:HE2	1.24	1.14
1:z:216:SFE:HZ	1:b:216:SFE:CE1	1.76	1.14
1:G:210:SFE:HE1	1:e:210:SFE:HE2	1.27	1.14
1:F:209:GLY:CA	1:M:212:GLY:HA3	1.78	1.13
1:M:210:SFE:HE1	1:N:210:SFE:HE1	1.14	1.13
1:q:210:SFE:HE1	1:s:210:SFE:HE1	1.14	1.13
1:c:209:GLY:CA	1:q:212:GLY:HA3	1.78	1.13
1:r:210:SFE:HE1	1:t:210:SFE:HE1	1.14	1.13
1:r:210:SFE:HE2	1:t:216:SFE:HZ	1.29	1.13
1:D:209:GLY:CA	1:I:212:GLY:HA3	1.78	1.13
1:M:210:SFE:HE2	1:N:216:SFE:HZ	1.29	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:209:GLY:CA	1:i:212:GLY:HA3	1.78	1.13
1:Z:209:GLY:CA	1:j:212:GLY:HA3	1.78	1.13
1:Y:216:SFE:HE1	1:Z:216:SFE:CE2	1.78	1.12
1:T:217:GLY:HA2	1:h:209:GLY:N	1.65	1.12
1:d:209:GLY:CA	1:r:212:GLY:HA3	1.78	1.12
1:L:210:SFE:HE1	1:L:210:SFE:HE1	1.14	1.12
1:S:217:GLY:HA2	1:g:209:GLY:N	1.65	1.12
1:i:210:SFE:HE1	1:o:210:SFE:HE1	1.14	1.12
1:j:210:SFE:HE1	1:p:210:SFE:HE1	1.14	1.12
1:A:217:GLY:HA2	1:H:209:GLY:N	1.65	1.12
1:X:217:GLY:HA2	1:n:209:GLY:N	1.65	1.12
1:C:217:GLY:HA2	1:K:209:GLY:N	1.65	1.12
1:Y:216:SFE:CD1	1:Z:216:SFE:HD2	1.78	1.12
1:W:217:GLY:HA2	1:m:209:GLY:N	1.65	1.12
1:c:216:SFE:HE1	1:d:216:SFE:CE2	1.78	1.12
1:q:210:SFE:HE2	1:s:216:SFE:HZ	1.29	1.12
1:j:210:SFE:HE2	1:p:216:SFE:HZ	1.29	1.12
1:g:210:SFE:CD1	1:h:210:SFE:HA2C	1.78	1.11
1:i:210:SFE:HE2	1:o:216:SFE:HZ	1.29	1.11
1:c:216:SFE:CD1	1:d:216:SFE:HD2	1.79	1.11
1:k:210:SFE:HD1	1:l:210:SFE:HD2	1.19	1.11
1:F:216:SFE:HE1	1:c:216:SFE:CE2	1.79	1.11
1:F:216:SFE:CD1	1:c:216:SFE:HD2	1.80	1.11
1:I:210:SFE:HE2	1:L:216:SFE:HZ	1.29	1.11
1:D:216:SFE:HE1	1:Y:216:SFE:CE2	1.80	1.10
1:Y:216:SFE:HD1	1:Z:216:SFE:HD2	1.16	1.10
1:g:210:SFE:HD1	1:h:210:SFE:CA	1.81	1.10
1:D:216:SFE:CD1	1:Y:216:SFE:HD2	1.80	1.10
1:F:216:SFE:HE1	1:c:216:SFE:HE2	1.15	1.10
1:H:210:SFE:CD1	1:g:210:SFE:HA2C	1.81	1.09
1:J:210:SFE:HD1	1:k:210:SFE:HD2	1.22	1.09
1:D:216:SFE:HD1	1:Y:216:SFE:HD2	1.17	1.09
1:S:216:SFE:HE2	1:T:216:SFE:HE1	1.35	1.09
1:K:210:SFE:CD1	1:m:210:SFE:HA2C	1.82	1.08
1:K:210:SFE:HD1	1:m:210:SFE:CA	1.84	1.08
1:C:216:SFE:HE2	1:W:216:SFE:HE1	1.33	1.08
1:Y:216:SFE:HE1	1:Z:216:SFE:HE2	1.14	1.08
1:c:216:SFE:HE1	1:d:216:SFE:HE2	1.13	1.08
1:m:210:SFE:HE1	1:n:210:SFE:HE2	1.32	1.08
1:E:210:SFE:CE2	1:a:210:SFE:HD1	1.84	1.08
1:H:210:SFE:HD1	1:g:210:SFE:CA	1.83	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:210:SFE:HE1	1:l:210:SFE:HE2	1.20	1.08
1:F:216:SFE:HD1	1:c:216:SFE:HD2	1.17	1.07
1:E:210:SFE:HE2	1:a:210:SFE:CD1	1.84	1.07
1:K:210:SFE:HD1	1:m:210:SFE:HD2	1.34	1.07
1:a:210:SFE:CE2	1:b:210:SFE:HD1	1.85	1.07
1:g:210:SFE:HD1	1:h:210:SFE:HD2	1.35	1.07
1:m:210:SFE:HD1	1:n:210:SFE:CA	1.85	1.07
1:m:210:SFE:CD1	1:n:210:SFE:HA2C	1.82	1.07
1:D:216:SFE:HE1	1:Y:216:SFE:HE2	1.15	1.07
1:m:210:SFE:HD1	1:n:210:SFE:HD2	1.31	1.07
1:q:216:SFE:HD1	1:r:216:SFE:HD2	1.08	1.07
1:a:210:SFE:HE2	1:b:210:SFE:CD1	1.85	1.07
1:G:210:SFE:HD1	1:e:210:SFE:HD2	1.26	1.06
1:e:210:SFE:HD1	1:f:210:SFE:HD2	1.23	1.06
1:A:216:SFE:HE2	1:S:216:SFE:HE1	1.37	1.06
1:H:210:SFE:HD1	1:g:210:SFE:HD2	1.36	1.06
1:S:216:SFE:HD2	1:T:216:SFE:HD1	1.36	1.06
1:c:216:SFE:HD1	1:d:216:SFE:HD2	1.15	1.06
1:q:216:SFE:HE1	1:r:216:SFE:HE2	1.08	1.06
1:W:216:SFE:HE2	1:X:216:SFE:HE1	1.33	1.06
1:J:210:SFE:HE1	1:k:210:SFE:HE2	1.22	1.05
1:I:216:SFE:HD1	1:i:216:SFE:HD2	1.08	1.05
1:U:210:SFE:CE2	1:V:210:SFE:HD1	1.87	1.05
1:U:210:SFE:HE2	1:V:210:SFE:CD1	1.87	1.05
1:M:216:SFE:HD1	1:q:216:SFE:HD2	1.07	1.04
1:A:210:SFE:HA1C	1:E:216:SFE:O	1.56	1.04
1:C:216:SFE:HD2	1:W:216:SFE:HD1	1.35	1.04
1:M:210:SFE:CE1	1:N:210:SFE:CE1	2.33	1.04
1:S:210:SFE:HA1C	1:a:216:SFE:O	1.56	1.04
1:i:216:SFE:HD1	1:j:216:SFE:HD2	1.06	1.04
1:T:210:SFE:HA1C	1:b:216:SFE:O	1.56	1.04
1:A:216:SFE:HD2	1:S:216:SFE:HD1	1.38	1.04
1:S:216:SFE:HD2	1:T:216:SFE:CE1	1.86	1.04
1:r:210:SFE:CE1	1:t:210:SFE:CE1	2.33	1.04
1:B:210:SFE:CE2	1:U:210:SFE:HD1	1.88	1.04
1:g:210:SFE:HE1	1:h:210:SFE:HE2	1.36	1.04
1:c:216:SFE:CE1	1:d:216:SFE:HE2	1.88	1.04
1:H:210:SFE:HE1	1:g:210:SFE:HE2	1.37	1.04
1:B:210:SFE:HE2	1:U:210:SFE:CD1	1.88	1.04
1:K:210:SFE:HE1	1:m:210:SFE:HE2	1.35	1.04
1:S:216:SFE:CD2	1:T:216:SFE:HE1	1.87	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:216:SFE:HD1	1:d:216:SFE:CD2	1.88	1.03
1:q:210:SFE:CE1	1:s:210:SFE:CE1	2.33	1.03
1:I:216:SFE:HE1	1:i:216:SFE:HE2	1.07	1.03
1:M:216:SFE:HE1	1:q:216:SFE:HE2	1.07	1.03
1:N:216:SFE:CD2	1:s:216:SFE:HD1	1.88	1.03
1:N:216:SFE:HE2	1:s:216:SFE:CE1	1.89	1.03
1:i:216:SFE:HE1	1:j:216:SFE:HE2	1.05	1.02
1:w:210:SFE:CD2	1:x:210:SFE:HB	1.88	1.02
1:A:216:SFE:HD2	1:S:216:SFE:CE1	1.89	1.02
1:W:216:SFE:HD2	1:X:216:SFE:HD1	1.34	1.01
1:A:216:SFE:CD2	1:S:216:SFE:HE1	1.90	1.01
1:F:210:SFE:HD2	1:c:210:SFE:CE1	1.91	1.01
1:Y:216:SFE:CE1	1:Z:216:SFE:HE2	1.90	1.01
1:o:216:SFE:HE2	1:p:216:SFE:CE1	1.91	1.01
1:s:216:SFE:CD2	1:t:216:SFE:HD1	1.90	1.01
1:F:210:SFE:CD2	1:c:210:SFE:HE1	1.91	1.01
1:F:216:SFE:CE1	1:c:216:SFE:HE2	1.91	1.01
1:Y:216:SFE:HD1	1:Z:216:SFE:CD2	1.91	1.01
1:F:216:SFE:HD1	1:c:216:SFE:CD2	1.91	1.01
1:o:216:SFE:CD2	1:p:216:SFE:HD1	1.89	1.01
1:W:216:SFE:HD2	1:X:216:SFE:CE1	1.90	1.01
1:s:216:SFE:HE2	1:t:216:SFE:CE1	1.91	1.01
1:e:210:SFE:CD1	1:f:210:SFE:CE2	2.35	1.00
1:I:210:SFE:CE1	1:L:210:SFE:CE1	2.33	1.00
1:W:216:SFE:CD2	1:X:216:SFE:HE1	1.91	1.00
1:q:216:SFE:CE1	1:r:216:SFE:HD2	1.90	1.00
1:P:210:SFE:CD2	1:w:210:SFE:HB	1.91	1.00
1:i:210:SFE:CE1	1:o:210:SFE:CE1	2.33	1.00
1:C:216:SFE:HD2	1:W:216:SFE:CE1	1.91	1.00
1:q:216:SFE:HE1	1:r:216:SFE:CD2	1.91	1.00
1:c:210:SFE:HD2	1:d:210:SFE:CE1	1.92	0.99
1:L:216:SFE:HE2	1:o:216:SFE:HE1	0.99	0.99
1:S:210:SFE:CD2	1:T:210:SFE:CE1	2.31	0.99
1:j:210:SFE:CE1	1:p:210:SFE:CE1	2.33	0.99
1:D:216:SFE:CE1	1:Y:216:SFE:HE2	1.93	0.99
1:C:216:SFE:CD2	1:W:216:SFE:HE1	1.92	0.99
1:C:210:SFE:CE2	1:J:211:GLY:HA2	1.93	0.99
1:W:210:SFE:CE2	1:k:211:GLY:HA2	1.93	0.99
1:D:216:SFE:HD1	1:Y:216:SFE:CD2	1.93	0.99
1:c:210:SFE:CD2	1:d:210:SFE:HE1	1.93	0.99
1:X:210:SFE:CE2	1:l:211:GLY:HA2	1.93	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:216:SFE:CD2	1:o:216:SFE:HD1	1.92	0.99
1:M:216:SFE:CE1	1:q:216:SFE:HD2	1.92	0.99
1:u:210:SFE:CD2	1:v:210:SFE:HB	1.93	0.98
1:L:216:SFE:HE2	1:o:216:SFE:CE1	1.93	0.98
1:Y:217:GLY:O	1:e:209:GLY:HA2	1.63	0.98
1:D:217:GLY:O	1:G:209:GLY:HA2	1.63	0.98
1:Z:217:GLY:O	1:f:209:GLY:HA2	1.63	0.98
1:d:217:GLY:O	1:l:209:GLY:HA2	1.63	0.98
1:M:216:SFE:HE1	1:q:216:SFE:CD2	1.92	0.98
1:x:215:ASN:O	1:l:210:SFE:HZ	1.63	0.98
1:G:210:SFE:CD1	1:e:210:SFE:CE2	2.37	0.98
1:B:216:SFE:CE1	1:R:216:SFE:CZ	2.41	0.97
1:c:217:GLY:O	1:k:209:GLY:HA2	1.63	0.97
1:w:215:ASN:O	1:0:210:SFE:HZ	1.63	0.97
1:V:216:SFE:CZ	1:l:216:SFE:HZ	1.94	0.97
1:F:217:GLY:O	1:J:209:GLY:HA2	1.63	0.97
1:Y:210:SFE:HD2	1:Z:210:SFE:CE1	1.94	0.97
1:U:216:SFE:CZ	1:0:216:SFE:HZ	1.94	0.97
1:V:216:SFE:CE1	1:l:216:SFE:CZ	2.41	0.97
1:L:216:SFE:HD2	1:o:216:SFE:HD1	0.97	0.97
1:B:216:SFE:CZ	1:R:216:SFE:HZ	1.94	0.97
1:U:216:SFE:CE1	1:0:216:SFE:CZ	2.41	0.97
1:A:210:SFE:CD2	1:S:210:SFE:CE1	2.33	0.97
1:P:215:ASN:O	1:R:210:SFE:HZ	1.63	0.97
1:Y:210:SFE:CD2	1:Z:210:SFE:HE1	1.94	0.97
1:0:215:ASN:O	1:l:215:ASN:HB2	1.64	0.97
1:T:210:SFE:CE2	1:f:211:GLY:HA2	1.93	0.96
1:o:216:SFE:HE2	1:p:216:SFE:HE1	0.97	0.96
1:S:216:SFE:CD2	1:T:216:SFE:CE1	2.43	0.96
1:A:210:SFE:CE2	1:G:211:GLY:HA2	1.93	0.96
1:m:210:SFE:CE1	1:n:210:SFE:CD2	2.30	0.96
1:i:216:SFE:CE1	1:j:216:SFE:HD2	1.95	0.96
1:w:210:SFE:HD2	1:x:210:SFE:HB	1.46	0.96
1:v:215:ASN:O	1:z:210:SFE:HZ	1.63	0.96
1:S:210:SFE:CE2	1:e:211:GLY:HA2	1.93	0.96
1:s:216:SFE:HE2	1:t:216:SFE:HE1	0.98	0.96
1:u:215:ASN:O	1:y:210:SFE:HZ	1.63	0.96
1:a:210:SFE:CE2	1:b:210:SFE:CD1	2.44	0.95
1:O:215:ASN:O	1:Q:210:SFE:HZ	1.63	0.95
1:R:215:ASN:O	1:0:215:ASN:HB2	1.66	0.95
1:i:216:SFE:HE1	1:j:216:SFE:CD2	1.95	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:215:ASN:O	1:z:215:ASN:HB2	1.65	0.95
1:O:210:SFE:CD2	1:u:210:SFE:HB	1.97	0.95
1:N:216:SFE:HE2	1:s:216:SFE:HE1	0.95	0.94
1:E:210:SFE:CE2	1:a:210:SFE:CD1	2.44	0.94
1:V:216:SFE:O	1:X:210:SFE:HA1C	1.65	0.94
1:o:216:SFE:HD2	1:p:216:SFE:HD1	0.95	0.94
1:k:210:SFE:CD1	1:l:210:SFE:CE2	2.36	0.94
1:D:210:SFE:HD2	1:Y:210:SFE:CE1	1.97	0.94
1:U:216:SFE:O	1:W:210:SFE:HA1C	1.65	0.94
1:u:210:SFE:CE2	1:v:210:SFE:CD1	2.36	0.94
1:A:216:SFE:CD2	1:S:216:SFE:CE1	2.46	0.94
1:D:210:SFE:CD2	1:Y:210:SFE:HE1	1.98	0.93
1:I:216:SFE:CE1	1:i:216:SFE:HD2	1.98	0.93
1:B:216:SFE:O	1:C:210:SFE:HA1C	1.65	0.93
1:P:210:SFE:HD2	1:w:210:SFE:HB	1.48	0.93
1:q:216:SFE:CE1	1:r:216:SFE:CD2	2.47	0.93
1:D:210:SFE:CZ	1:I:211:GLY:HA2	1.98	0.93
1:K:217:GLY:HA3	1:m:216:SFE:O	1.67	0.93
1:Y:210:SFE:CZ	1:i:211:GLY:HA2	1.98	0.93
1:Z:210:SFE:CZ	1:j:211:GLY:HA2	1.98	0.93
1:i:216:SFE:HD1	1:j:216:SFE:CD2	1.98	0.93
1:u:210:SFE:HD2	1:v:210:SFE:HB	1.49	0.93
1:m:217:GLY:HA3	1:n:216:SFE:O	1.68	0.93
1:K:210:SFE:CE1	1:m:210:SFE:CD2	2.31	0.92
1:W:216:SFE:CD2	1:X:216:SFE:CE1	2.46	0.92
1:I:216:SFE:HE1	1:i:216:SFE:CD2	1.98	0.92
1:g:210:SFE:CE1	1:h:210:SFE:CD2	2.28	0.92
1:s:216:SFE:HD2	1:t:216:SFE:HD1	0.96	0.92
1:P:210:SFE:CE2	1:w:210:SFE:CD1	2.35	0.92
1:M:216:SFE:CE1	1:q:216:SFE:CD2	2.48	0.92
1:w:210:SFE:CE2	1:x:210:SFE:CD1	2.34	0.92
1:d:210:SFE:CZ	1:r:211:GLY:HA2	1.98	0.92
1:Q:215:ASN:O	1:y:215:ASN:HB2	1.68	0.91
1:I:210:SFE:CE2	1:L:216:SFE:HZ	2.00	0.91
1:j:210:SFE:CE2	1:p:216:SFE:HZ	2.00	0.91
1:M:210:SFE:CE2	1:N:216:SFE:HZ	1.99	0.91
1:g:217:GLY:HA3	1:h:216:SFE:O	1.69	0.91
1:c:210:SFE:CZ	1:q:211:GLY:HA2	1.98	0.91
1:O:210:SFE:HD2	1:u:210:SFE:HB	1.52	0.91
1:N:216:SFE:HD2	1:s:216:SFE:HD1	0.93	0.91
1:i:210:SFE:CE2	1:o:216:SFE:HZ	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:210:SFE:CE2	1:s:216:SFE:HZ	1.99	0.91
1:C:216:SFE:CD2	1:W:216:SFE:CE1	2.48	0.91
1:F:210:SFE:CZ	1:M:211:GLY:HA2	1.98	0.91
1:J:210:SFE:CD1	1:k:210:SFE:CE2	2.37	0.90
1:r:210:SFE:CE2	1:t:216:SFE:HZ	2.00	0.90
1:I:216:SFE:HD1	1:i:216:SFE:CD2	2.00	0.90
1:U:210:SFE:CE2	1:V:210:SFE:CD1	2.45	0.90
1:i:216:SFE:CE1	1:j:216:SFE:HE2	1.98	0.89
1:q:216:SFE:CE1	1:r:216:SFE:HE2	2.00	0.89
1:Y:210:SFE:CD2	1:Z:210:SFE:CE1	2.51	0.89
1:c:210:SFE:CD2	1:d:210:SFE:CE1	2.49	0.89
1:F:210:SFE:CD2	1:c:210:SFE:CE1	2.48	0.88
1:H:217:GLY:HA3	1:g:216:SFE:O	1.72	0.88
1:M:216:SFE:HD1	1:q:216:SFE:CD2	1.99	0.88
1:W:210:SFE:CD2	1:X:210:SFE:CE1	2.32	0.88
1:H:210:SFE:CE1	1:g:210:SFE:CD2	2.32	0.88
1:M:216:SFE:CE1	1:q:216:SFE:HE2	2.00	0.88
1:i:216:SFE:CE1	1:j:216:SFE:CD2	2.50	0.88
1:q:216:SFE:CD1	1:r:216:SFE:CD2	2.51	0.87
1:w:210:SFE:HE2	1:x:210:SFE:CG	2.05	0.87
1:q:216:SFE:CE1	1:r:216:SFE:CE2	2.51	0.87
1:B:210:SFE:CE2	1:U:210:SFE:CD1	2.47	0.87
1:q:216:SFE:HD1	1:r:216:SFE:CD2	2.00	0.87
1:M:216:SFE:CD1	1:q:216:SFE:CD2	2.51	0.87
1:N:216:SFE:CD2	1:s:216:SFE:CD1	2.50	0.86
1:Q:216:SFE:CZ	1:E:216:SFE:CE1	2.53	0.86
1:M:216:SFE:CE1	1:q:216:SFE:CE2	2.52	0.86
1:s:216:SFE:CD2	1:t:216:SFE:CD1	2.51	0.86
1:y:216:SFE:CZ	1:a:216:SFE:CE1	2.53	0.86
1:w:210:SFE:CZ	1:x:210:SFE:HD1	2.06	0.86
1:N:216:SFE:CE2	1:s:216:SFE:CE1	2.51	0.86
1:I:216:SFE:CE1	1:i:216:SFE:HE2	2.01	0.86
1:C:210:SFE:CD2	1:W:210:SFE:CE1	2.34	0.86
1:z:216:SFE:CZ	1:b:216:SFE:CE1	2.53	0.86
1:s:216:SFE:CE2	1:t:216:SFE:CE1	2.52	0.85
1:a:210:SFE:CD2	1:b:210:SFE:HD1	2.06	0.85
1:D:210:SFE:CD2	1:Y:210:SFE:CE1	2.55	0.85
1:i:216:SFE:CE1	1:j:216:SFE:CE2	2.51	0.85
1:i:216:SFE:CD1	1:j:216:SFE:CD2	2.51	0.85
1:Y:216:SFE:CD1	1:Z:216:SFE:CD2	2.54	0.84
1:I:216:SFE:CE1	1:i:216:SFE:CD2	2.53	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:216:SFE:HZ	1:E:216:SFE:CZ	2.08	0.84
1:P:210:SFE:HE2	1:w:210:SFE:CG	2.08	0.84
1:y:216:SFE:HZ	1:a:216:SFE:CZ	2.08	0.84
1:z:216:SFE:HZ	1:b:216:SFE:CZ	2.08	0.84
1:Y:216:SFE:CE1	1:Z:216:SFE:CE2	2.54	0.84
1:E:210:SFE:CD2	1:a:210:SFE:HD1	2.08	0.83
1:P:210:SFE:CZ	1:w:210:SFE:HD1	2.09	0.83
1:0:212:GLY:HA3	1:1:212:GLY:O	1.79	0.83
1:a:210:SFE:HE2	1:b:210:SFE:CE1	2.08	0.83
1:Z:209:GLY:HA3	1:j:212:GLY:CA	2.07	0.82
1:F:210:SFE:HD2	1:c:210:SFE:CD1	2.08	0.82
1:d:209:GLY:CA	1:r:212:GLY:CA	2.58	0.82
1:g:215:ASN:CB	1:h:215:ASN:O	2.27	0.82
1:c:209:GLY:CA	1:q:212:GLY:CA	2.58	0.82
1:w:210:SFE:CE2	1:x:210:SFE:HB	2.09	0.82
1:Y:209:GLY:HA3	1:i:212:GLY:CA	2.07	0.82
1:c:216:SFE:CD1	1:d:216:SFE:CD2	2.53	0.82
1:F:209:GLY:CA	1:M:212:GLY:CA	2.58	0.82
1:Y:210:SFE:HD2	1:Z:210:SFE:CD1	2.09	0.82
1:W:216:SFE:CE2	1:X:216:SFE:CE1	2.57	0.82
1:W:216:SFE:CD2	1:X:216:SFE:CD1	2.57	0.82
1:u:210:SFE:HE2	1:v:210:SFE:CG	2.09	0.82
1:F:210:SFE:CE2	1:c:210:SFE:HE1	2.10	0.81
1:D:216:SFE:CD1	1:Y:216:SFE:CD2	2.56	0.81
1:U:210:SFE:CD2	1:V:210:SFE:HD1	2.09	0.81
1:c:216:SFE:CE1	1:d:216:SFE:CE2	2.52	0.81
1:D:209:GLY:HA3	1:I:212:GLY:CA	2.07	0.81
1:m:215:ASN:CB	1:n:215:ASN:O	2.29	0.81
1:I:216:SFE:CD1	1:i:216:SFE:CD2	2.54	0.81
1:I:216:SFE:CE1	1:i:216:SFE:CE2	2.54	0.81
1:D:216:SFE:CE1	1:Y:216:SFE:CE2	2.56	0.81
1:F:216:SFE:CD1	1:c:216:SFE:CD2	2.54	0.81
1:d:209:GLY:HA3	1:r:212:GLY:CA	2.07	0.81
1:K:215:ASN:CB	1:m:215:ASN:O	2.29	0.81
1:R:212:GLY:HA3	1:0:212:GLY:O	1.81	0.81
1:E:210:SFE:HE2	1:a:210:SFE:CE1	2.10	0.80
1:C:216:SFE:CD2	1:W:216:SFE:CD1	2.59	0.80
1:F:216:SFE:CE1	1:c:216:SFE:CE2	2.54	0.80
1:u:210:SFE:CZ	1:v:210:SFE:HD1	2.10	0.80
1:U:210:SFE:HE2	1:V:210:SFE:CE1	2.11	0.80
1:D:209:GLY:CA	1:I:212:GLY:CA	2.58	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:209:GLY:HA3	1:q:212:GLY:CA	2.07	0.80
1:D:210:SFE:HD2	1:Y:210:SFE:CD1	2.12	0.80
1:B:210:SFE:CD2	1:U:210:SFE:HD1	2.11	0.80
1:e:214:ASP:O	1:f:214:ASP:HA	1.82	0.80
1:H:215:ASN:CB	1:g:215:ASN:O	2.30	0.80
1:Y:209:GLY:CA	1:i:212:GLY:CA	2.58	0.80
1:y:212:GLY:HA3	1:z:212:GLY:O	1.81	0.80
1:Y:210:SFE:CE2	1:Z:210:SFE:HE1	2.11	0.79
1:o:216:SFE:CD2	1:p:216:SFE:CD1	2.53	0.79
1:Z:209:GLY:CA	1:j:212:GLY:CA	2.58	0.79
1:F:209:GLY:HA3	1:M:212:GLY:CA	2.07	0.79
1:o:216:SFE:CE2	1:p:216:SFE:CE1	2.53	0.79
1:c:210:SFE:HD2	1:d:210:SFE:CD1	2.11	0.79
1:M:210:SFE:HE2	1:N:216:SFE:CZ	2.12	0.79
1:X:217:GLY:CA	1:n:209:GLY:N	2.45	0.79
1:q:210:SFE:HE2	1:s:216:SFE:CZ	2.12	0.79
1:s:216:SFE:HD2	1:t:216:SFE:CE1	2.12	0.79
1:S:216:SFE:CE2	1:T:216:SFE:CE1	2.57	0.78
1:W:217:GLY:CA	1:m:209:GLY:N	2.45	0.78
1:c:210:SFE:CE2	1:d:210:SFE:HE1	2.13	0.78
1:I:216:SFE:CE1	1:G:216:SFE:HZ	2.13	0.78
1:B:210:SFE:HE2	1:U:210:SFE:CE1	2.12	0.78
1:s:216:SFE:CD2	1:t:216:SFE:HE1	2.13	0.78
1:i:216:SFE:CE1	1:e:216:SFE:HZ	2.13	0.78
1:r:210:SFE:HE2	1:t:216:SFE:CZ	2.12	0.78
1:O:210:SFE:HE2	1:u:210:SFE:CG	2.13	0.78
1:Q:212:GLY:HA3	1:y:212:GLY:O	1.83	0.78
1:k:210:SFE:CD1	1:l:210:SFE:HD2	2.10	0.78
1:C:217:GLY:CA	1:K:209:GLY:N	2.45	0.78
1:U:215:ASN:O	1:V:215:ASN:HB2	1.83	0.78
1:j:216:SFE:CE1	1:f:216:SFE:HZ	2.13	0.78
1:r:216:SFE:CE1	1:l:216:SFE:HZ	2.13	0.78
1:P:210:SFE:CE2	1:w:210:SFE:HB	2.13	0.78
1:E:215:ASN:O	1:a:215:ASN:HB2	1.84	0.78
1:S:216:SFE:CD2	1:T:216:SFE:CD1	2.57	0.78
1:W:216:SFE:CD2	1:X:216:SFE:HD1	2.14	0.78
1:a:215:ASN:O	1:b:215:ASN:HB2	1.84	0.78
1:k:214:ASP:O	1:l:214:ASP:HA	1.82	0.78
1:s:216:SFE:CD2	1:t:216:SFE:CE1	2.61	0.77
1:i:210:SFE:HE2	1:o:216:SFE:CZ	2.12	0.77
1:I:210:SFE:HE2	1:L:216:SFE:CZ	2.12	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:216:SFE:CE1	1:k:216:SFE:HZ	2.13	0.77
1:A:217:GLY:CA	1:H:209:GLY:N	2.45	0.77
1:D:210:SFE:CE2	1:Y:210:SFE:HE1	2.14	0.77
1:O:210:SFE:CZ	1:u:210:SFE:HD1	2.14	0.77
1:j:210:SFE:HE2	1:p:216:SFE:CZ	2.12	0.77
1:M:216:SFE:CE1	1:J:216:SFE:HZ	2.13	0.77
1:S:217:GLY:CA	1:g:209:GLY:N	2.45	0.77
1:T:217:GLY:CA	1:h:209:GLY:N	2.45	0.77
1:G:214:ASP:O	1:e:214:ASP:HA	1.85	0.76
1:C:216:SFE:CD2	1:W:216:SFE:HD1	2.15	0.76
1:J:214:ASP:O	1:k:214:ASP:HA	1.83	0.76
1:N:216:SFE:HD2	1:s:216:SFE:CE1	2.15	0.76
1:N:216:SFE:CD2	1:s:216:SFE:CE1	2.63	0.76
1:A:216:SFE:CE2	1:S:216:SFE:CE1	2.60	0.76
1:q:216:SFE:HD1	1:r:216:SFE:CA	2.15	0.76
1:u:210:SFE:CE2	1:v:210:SFE:HB	2.16	0.76
1:g:215:ASN:HB2	1:h:215:ASN:O	1.86	0.76
1:L:216:SFE:CD2	1:o:216:SFE:CD1	2.56	0.75
1:G:216:SFE:N	1:G:216:SFE:O	2.13	0.75
1:m:215:ASN:HB2	1:n:215:ASN:O	1.86	0.75
1:A:216:SFE:CD2	1:S:216:SFE:CD1	2.60	0.75
1:L:216:SFE:CE2	1:o:216:SFE:CE1	2.57	0.75
1:B:215:ASN:O	1:U:215:ASN:HB2	1.86	0.75
1:W:216:SFE:HE2	1:X:216:SFE:CE1	2.14	0.75
1:e:216:SFE:O	1:e:216:SFE:N	2.13	0.74
1:o:216:SFE:CD2	1:p:216:SFE:CE1	2.66	0.74
1:C:216:SFE:HE2	1:W:216:SFE:CE1	2.16	0.74
1:m:210:SFE:HD1	1:n:210:SFE:HA2C	0.88	0.74
1:M:216:SFE:HD1	1:q:216:SFE:CA	2.18	0.73
1:o:216:SFE:CD2	1:p:216:SFE:HE1	2.19	0.73
1:f:216:SFE:O	1:f:216:SFE:N	2.13	0.73
1:H:215:ASN:HB2	1:g:215:ASN:O	1.89	0.73
1:S:216:SFE:CD2	1:T:216:SFE:HD1	2.16	0.73
1:o:216:SFE:HD2	1:p:216:SFE:CE1	2.18	0.73
1:q:216:SFE:HD1	1:r:216:SFE:HA2C	1.70	0.73
1:N:216:SFE:CD2	1:s:216:SFE:HE1	2.15	0.73
1:S:216:SFE:HE2	1:T:216:SFE:CE1	2.16	0.73
1:K:215:ASN:HB2	1:m:215:ASN:O	1.88	0.73
1:C:216:SFE:CE2	1:W:216:SFE:CE1	2.59	0.72
1:J:216:SFE:N	1:J:216:SFE:O	2.13	0.72
1:q:214:ASP:OD2	1:k:216:SFE:HA2C	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:214:ASP:OD2	1:l:216:SFE:HA2C	1.90	0.72
1:M:214:ASP:OD2	1:J:216:SFE:HA2C	1.90	0.72
1:k:215:ASN:HB2	1:l:215:ASN:O	1.89	0.72
1:O:210:SFE:CE2	1:u:210:SFE:HB	2.19	0.72
1:A:216:SFE:HE2	1:S:216:SFE:CE1	2.18	0.71
1:A:216:SFE:CD2	1:S:216:SFE:HD1	2.18	0.71
1:0:214:ASP:HB3	1:1:214:ASP:OD1	1.90	0.71
1:k:216:SFE:O	1:k:216:SFE:N	2.13	0.71
1:j:214:ASP:OD2	1:f:216:SFE:HA2C	1.90	0.71
1:d:209:GLY:HA2	1:r:212:GLY:HA3	1.72	0.71
1:g:209:GLY:HA3	1:h:209:GLY:O	1.90	0.71
1:i:214:ASP:OD2	1:e:216:SFE:HA2C	1.90	0.71
1:c:209:GLY:HA2	1:q:212:GLY:HA3	1.72	0.71
1:g:210:SFE:HB	1:h:210:SFE:O	1.91	0.70
1:I:214:ASP:OD2	1:G:216:SFE:HA2C	1.90	0.70
1:i:216:SFE:HD1	1:j:216:SFE:CA	2.21	0.70
1:F:209:GLY:HA2	1:M:212:GLY:HA3	1.72	0.70
1:B:216:SFE:CZ	1:R:216:SFE:CZ	2.69	0.70
1:l:216:SFE:N	1:l:216:SFE:O	2.13	0.70
1:L:216:SFE:CD2	1:o:216:SFE:CE1	2.70	0.70
1:y:214:ASP:HB3	1:z:214:ASP:OD1	1.92	0.70
1:y:215:ASN:H	1:z:215:ASN:HB3	1.57	0.69
1:U:216:SFE:CZ	1:0:216:SFE:CZ	2.69	0.69
1:m:210:SFE:HD1	1:n:210:SFE:CD2	2.19	0.69
1:m:209:GLY:HA3	1:n:209:GLY:O	1.91	0.69
1:q:212:GLY:O	1:r:213:ASN:HB2	1.93	0.69
1:e:210:SFE:CD1	1:f:210:SFE:HD2	2.13	0.69
1:L:216:SFE:CD2	1:o:216:SFE:HE1	2.23	0.69
1:a:216:SFE:CD2	1:b:216:SFE:HD1	2.22	0.69
1:Z:209:GLY:HA2	1:j:212:GLY:CA	2.23	0.69
1:F:212:GLY:HA2	1:P:209:GLY:HA2	1.75	0.69
1:M:216:SFE:HD1	1:q:216:SFE:HA2C	1.74	0.69
1:R:214:ASP:HB3	1:0:214:ASP:OD1	1.92	0.69
1:e:210:SFE:HE1	1:f:210:SFE:CE2	2.14	0.69
1:c:212:GLY:HA2	1:w:209:GLY:HA2	1.75	0.69
1:V:216:SFE:CZ	1:1:216:SFE:CZ	2.69	0.69
1:Y:209:GLY:HA2	1:i:212:GLY:CA	2.23	0.69
1:U:216:SFE:CD2	1:V:216:SFE:HD1	2.23	0.69
1:U:214:ASP:HB3	1:V:214:ASP:OD1	1.93	0.68
1:K:210:SFE:HB	1:m:210:SFE:O	1.93	0.68
1:D:209:GLY:HA2	1:I:212:GLY:CA	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:216:SFE:HD2	1:o:216:SFE:CE1	2.22	0.68
1:E:216:SFE:CD2	1:a:216:SFE:HD1	2.23	0.68
1:e:215:ASN:HB2	1:f:215:ASN:O	1.93	0.68
1:d:212:GLY:HA2	1:x:209:GLY:HA2	1.75	0.68
1:I:216:SFE:HD1	1:i:216:SFE:CA	2.23	0.68
1:Z:210:SFE:CE2	1:j:211:GLY:HA2	2.23	0.68
1:D:210:SFE:CE2	1:I:211:GLY:HA2	2.23	0.68
1:J:215:ASN:HB2	1:k:215:ASN:O	1.93	0.68
1:H:209:GLY:HA3	1:g:209:GLY:O	1.93	0.68
1:Y:210:SFE:CE2	1:i:211:GLY:HA2	2.23	0.68
1:w:215:ASN:OD1	1:x:215:ASN:HB3	1.93	0.68
1:K:209:GLY:HA3	1:m:209:GLY:O	1.93	0.68
1:H:210:SFE:HB	1:g:210:SFE:O	1.94	0.68
1:Q:214:ASP:HB3	1:y:214:ASP:OD1	1.94	0.68
1:Z:215:ASN:ND2	1:v:216:SFE:HD1	2.09	0.68
1:D:215:ASN:ND2	1:O:216:SFE:HD1	2.09	0.67
1:Y:215:ASN:ND2	1:u:216:SFE:HD1	2.10	0.67
1:j:216:SFE:CZ	1:f:216:SFE:HZ	2.25	0.67
1:d:210:SFE:CE2	1:r:211:GLY:HA2	2.23	0.67
1:D:212:GLY:HA2	1:O:209:GLY:HA2	1.75	0.67
1:F:209:GLY:HA2	1:M:212:GLY:CA	2.23	0.67
1:i:216:SFE:CZ	1:e:216:SFE:HZ	2.25	0.67
1:Q:215:ASN:H	1:y:215:ASN:HB3	1.59	0.67
1:F:215:ASN:ND2	1:P:216:SFE:HD1	2.09	0.67
1:a:214:ASP:HB3	1:b:214:ASP:OD1	1.94	0.67
1:F:210:SFE:CE2	1:M:211:GLY:HA2	2.23	0.67
1:Y:212:GLY:HA2	1:u:209:GLY:HA2	1.75	0.67
1:c:210:SFE:CE2	1:q:211:GLY:HA2	2.23	0.67
1:c:215:ASN:ND2	1:w:216:SFE:HD1	2.09	0.67
1:a:216:SFE:HE2	1:b:216:SFE:CE1	2.24	0.67
1:Z:212:GLY:HA2	1:v:209:GLY:HA2	1.75	0.67
1:I:216:SFE:CZ	1:G:216:SFE:HZ	2.25	0.67
1:i:216:SFE:HD1	1:j:216:SFE:HA2C	1.76	0.67
1:m:210:SFE:HB	1:n:210:SFE:O	1.94	0.67
1:u:215:ASN:OD1	1:v:215:ASN:HB3	1.95	0.67
1:B:216:SFE:CD2	1:U:216:SFE:HD1	2.25	0.67
1:G:215:ASN:HB2	1:e:215:ASN:O	1.95	0.67
1:d:209:GLY:HA2	1:r:212:GLY:CA	2.23	0.67
1:d:215:ASN:ND2	1:x:216:SFE:HD1	2.09	0.67
1:M:216:SFE:CZ	1:J:216:SFE:HZ	2.24	0.66
1:P:215:ASN:OD1	1:w:215:ASN:HB3	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:209:GLY:HA2	1:q:212:GLY:CA	2.23	0.66
1:a:216:SFE:HD2	1:b:216:SFE:CD1	2.25	0.66
1:k:210:SFE:HE1	1:l:210:SFE:CE2	2.11	0.66
1:G:210:SFE:CD1	1:e:210:SFE:HD2	2.16	0.66
1:a:215:ASN:O	1:b:215:ASN:CB	2.44	0.66
1:r:216:SFE:CZ	1:l:216:SFE:HZ	2.25	0.66
1:0:215:ASN:H	1:1:215:ASN:HB3	1.59	0.66
1:q:216:SFE:CZ	1:k:216:SFE:HZ	2.24	0.66
1:E:215:ASN:O	1:a:215:ASN:CB	2.44	0.66
1:G:210:SFE:HE1	1:e:210:SFE:CE2	2.17	0.66
1:E:216:SFE:HE2	1:a:216:SFE:CE1	2.25	0.66
1:B:214:ASP:HB3	1:U:214:ASP:OD1	1.96	0.66
1:U:216:SFE:HE2	1:V:216:SFE:CE1	2.26	0.66
1:K:210:SFE:HD1	1:m:210:SFE:HA2C	0.87	0.66
1:M:212:GLY:O	1:q:213:ASN:HB2	1.97	0.65
1:O:210:SFE:CE2	1:u:210:SFE:CD1	2.38	0.65
1:E:214:ASP:HB3	1:a:214:ASP:OD1	1.97	0.65
1:R:215:ASN:H	1:0:215:ASN:HB3	1.60	0.65
1:J:210:SFE:CD1	1:k:210:SFE:HD2	2.12	0.65
1:U:215:ASN:O	1:V:215:ASN:CB	2.44	0.65
1:a:216:SFE:CD2	1:b:216:SFE:CD1	2.75	0.65
1:E:216:SFE:HD2	1:a:216:SFE:CD1	2.26	0.64
1:I:216:SFE:HD1	1:i:216:SFE:HA2C	1.78	0.64
1:B:216:SFE:HE2	1:U:216:SFE:CE1	2.27	0.64
1:a:216:SFE:CE2	1:b:216:SFE:HE1	2.27	0.64
1:J:210:SFE:HE1	1:k:210:SFE:CE2	2.13	0.64
1:U:216:SFE:HD2	1:V:216:SFE:CD1	2.27	0.64
1:c:212:GLY:HA2	1:w:209:GLY:CA	2.28	0.64
1:d:212:GLY:HA2	1:x:209:GLY:CA	2.28	0.64
1:F:212:GLY:HA2	1:P:209:GLY:CA	2.28	0.64
1:S:210:SFE:CA	1:T:210:SFE:HD1	2.28	0.64
1:Z:209:GLY:HA2	1:j:212:GLY:HA3	1.72	0.64
1:O:215:ASN:OD1	1:u:215:ASN:HB3	1.98	0.63
1:B:216:SFE:HD2	1:U:216:SFE:CD1	2.28	0.63
1:a:216:SFE:CE2	1:b:216:SFE:CE1	2.77	0.63
1:D:212:GLY:HA2	1:O:209:GLY:CA	2.28	0.63
1:E:216:SFE:CD2	1:a:216:SFE:CD1	2.77	0.63
1:Y:209:GLY:HA2	1:i:212:GLY:HA3	1.72	0.63
1:g:210:SFE:HD1	1:h:210:SFE:CD2	2.22	0.63
1:k:215:ASN:CB	1:l:215:ASN:O	2.46	0.63
1:E:216:SFE:CE2	1:a:216:SFE:HE1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:216:SFE:CE1	1:Z:216:SFE:CD2	2.77	0.62
1:B:215:ASN:O	1:U:215:ASN:CB	2.46	0.62
1:Y:212:GLY:HA2	1:u:209:GLY:CA	2.28	0.62
1:i:212:GLY:O	1:j:213:ASN:HB2	1.98	0.62
1:0:213:ASN:H	1:1:213:ASN:CB	2.13	0.62
1:D:209:GLY:HA2	1:I:212:GLY:HA3	1.72	0.62
1:y:213:ASN:H	1:z:213:ASN:CB	2.12	0.62
1:Z:212:GLY:HA2	1:v:209:GLY:CA	2.28	0.62
1:U:216:SFE:CD2	1:V:216:SFE:CD1	2.76	0.62
1:g:217:GLY:CA	1:h:216:SFE:O	2.47	0.62
1:Q:213:ASN:H	1:y:213:ASN:CB	2.13	0.62
1:E:216:SFE:CE2	1:a:216:SFE:CE1	2.78	0.61
1:U:216:SFE:CE2	1:V:216:SFE:HE1	2.30	0.61
1:m:210:SFE:CE1	1:n:210:SFE:HE2	2.20	0.61
1:d:217:GLY:O	1:l:209:GLY:CA	2.45	0.61
1:g:210:SFE:CE1	1:h:210:SFE:HE2	2.23	0.61
1:C:210:SFE:CA	1:W:210:SFE:HD1	2.29	0.61
1:w:210:SFE:HE2	1:x:210:SFE:CB	2.31	0.61
1:B:214:ASP:OD2	1:R:216:SFE:HA2C	2.00	0.61
1:B:216:SFE:CE2	1:U:216:SFE:HE1	2.31	0.61
1:K:217:GLY:CA	1:m:216:SFE:O	2.46	0.61
1:R:213:ASN:H	1:0:213:ASN:CB	2.14	0.61
1:g:215:ASN:O	1:g:215:ASN:OD1	2.19	0.61
1:h:215:ASN:O	1:h:215:ASN:OD1	2.19	0.61
1:c:217:GLY:O	1:k:209:GLY:CA	2.45	0.61
1:H:215:ASN:OD1	1:H:215:ASN:O	2.19	0.61
1:N:215:ASN:O	1:s:215:ASN:HB3	2.01	0.61
1:U:214:ASP:OD2	1:0:216:SFE:HA2C	2.00	0.61
1:U:216:SFE:CE2	1:V:216:SFE:CE1	2.77	0.61
1:W:210:SFE:CA	1:X:210:SFE:HD1	2.30	0.61
1:A:210:SFE:CA	1:S:210:SFE:HD1	2.31	0.61
1:m:217:GLY:CA	1:n:216:SFE:O	2.46	0.61
1:D:216:SFE:CE1	1:Y:216:SFE:CD2	2.79	0.60
1:B:216:SFE:CD2	1:U:216:SFE:CD1	2.78	0.60
1:V:214:ASP:OD2	1:1:216:SFE:HA2C	2.00	0.60
1:F:217:GLY:O	1:J:209:GLY:CA	2.45	0.60
1:S:215:ASN:OD1	1:T:215:ASN:HB3	2.00	0.60
1:U:213:ASN:OD1	1:V:213:ASN:CB	2.49	0.60
1:Q:216:SFE:HA2C	1:E:214:ASP:OD2	2.02	0.60
1:U:216:SFE:HE1	1:0:216:SFE:CZ	2.29	0.60
1:B:216:SFE:HE1	1:R:216:SFE:CZ	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:212:GLY:CA	1:P:209:GLY:CA	2.80	0.60
1:K:215:ASN:OD1	1:K:215:ASN:O	2.19	0.60
1:y:216:SFE:HA2C	1:a:214:ASP:OD2	2.02	0.60
1:a:213:ASN:OD1	1:b:213:ASN:CB	2.49	0.60
1:V:216:SFE:HE1	1:l:216:SFE:CZ	2.29	0.60
1:I:212:GLY:O	1:i:213:ASN:HB2	2.01	0.60
1:c:212:GLY:CA	1:w:209:GLY:CA	2.80	0.60
1:m:215:ASN:O	1:m:215:ASN:OD1	2.19	0.60
1:a:213:ASN:OD1	1:b:213:ASN:HB3	2.02	0.60
1:z:216:SFE:HA2C	1:b:214:ASP:OD2	2.02	0.60
1:d:212:GLY:CA	1:x:209:GLY:CA	2.80	0.60
1:n:215:ASN:O	1:n:215:ASN:OD1	2.19	0.60
1:D:210:SFE:CE2	1:I:211:GLY:CA	2.80	0.60
1:Y:210:SFE:CE2	1:i:211:GLY:CA	2.80	0.59
1:d:210:SFE:CE2	1:r:211:GLY:CA	2.80	0.59
1:B:216:SFE:CE2	1:U:216:SFE:CE1	2.79	0.59
1:F:210:SFE:CE2	1:M:211:GLY:CA	2.80	0.59
1:E:210:SFE:HD2	1:a:210:SFE:HB	1.84	0.59
1:W:215:ASN:OD1	1:X:215:ASN:HB3	2.01	0.59
1:c:210:SFE:CE2	1:q:211:GLY:CA	2.80	0.59
1:Z:210:SFE:CE2	1:j:211:GLY:CA	2.80	0.59
1:D:212:GLY:CA	1:O:209:GLY:CA	2.80	0.59
1:w:216:SFE:HE2	1:x:216:SFE:CE1	2.32	0.59
1:Y:212:GLY:CA	1:u:209:GLY:CA	2.80	0.59
1:J:215:ASN:CB	1:k:215:ASN:O	2.50	0.59
1:Z:212:GLY:CA	1:v:209:GLY:CA	2.80	0.59
1:w:216:SFE:CD2	1:x:216:SFE:HD1	2.33	0.59
1:A:215:ASN:OD1	1:S:215:ASN:HB3	2.02	0.59
1:T:210:SFE:CE2	1:f:211:GLY:CA	2.78	0.58
1:k:216:SFE:CE2	1:n:216:SFE:HE1	2.33	0.58
1:E:216:SFE:HD2	1:a:216:SFE:HD1	1.83	0.58
1:W:210:SFE:HA2C	1:X:210:SFE:O	2.03	0.58
1:e:215:ASN:CB	1:f:215:ASN:O	2.51	0.58
1:F:212:GLY:CA	1:P:209:GLY:N	2.67	0.58
1:e:216:SFE:CE2	1:h:216:SFE:HE1	2.33	0.58
1:a:210:SFE:HD2	1:b:210:SFE:HB	1.85	0.58
1:B:213:ASN:OD1	1:U:213:ASN:CB	2.52	0.58
1:S:210:SFE:CE2	1:e:211:GLY:CA	2.78	0.58
1:F:216:SFE:CE1	1:c:216:SFE:CD2	2.79	0.58
1:o:215:ASN:O	1:p:215:ASN:HB3	2.03	0.58
1:c:212:GLY:CA	1:w:209:GLY:N	2.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:213:ASN:OD1	1:a:213:ASN:HB3	2.03	0.58
1:D:212:GLY:CA	1:O:209:GLY:N	2.67	0.58
1:Y:212:GLY:CA	1:u:209:GLY:N	2.67	0.58
1:Z:212:GLY:CA	1:v:209:GLY:N	2.67	0.58
1:d:212:GLY:CA	1:x:209:GLY:N	2.67	0.58
1:S:210:SFE:HA2C	1:T:210:SFE:O	2.03	0.57
1:u:216:SFE:HE2	1:v:216:SFE:CE1	2.34	0.57
1:E:213:ASN:OD1	1:a:213:ASN:CB	2.51	0.57
1:w:214:ASP:CB	1:x:214:ASP:OD1	2.53	0.57
1:c:216:SFE:CE1	1:d:216:SFE:CD2	2.79	0.57
1:A:210:SFE:CE2	1:G:211:GLY:CA	2.78	0.57
1:U:210:SFE:HD2	1:V:210:SFE:HB	1.86	0.57
1:U:213:ASN:OD1	1:V:213:ASN:HB3	2.03	0.57
1:w:210:SFE:CE2	1:x:210:SFE:CB	2.81	0.57
1:a:216:SFE:HD2	1:b:216:SFE:HD1	1.83	0.57
1:G:216:SFE:CE2	1:g:216:SFE:HE1	2.34	0.57
1:P:210:SFE:HE2	1:w:210:SFE:CB	2.35	0.57
1:s:215:ASN:O	1:t:215:ASN:HB3	2.05	0.57
1:Z:217:GLY:O	1:f:209:GLY:CA	2.46	0.57
1:L:215:ASN:O	1:o:215:ASN:HB3	2.05	0.57
1:C:215:ASN:OD1	1:W:215:ASN:HB3	2.04	0.57
1:a:216:SFE:HE2	1:b:216:SFE:HE1	1.87	0.57
1:P:216:SFE:HE2	1:w:216:SFE:CE1	2.34	0.57
1:E:216:SFE:HE2	1:a:216:SFE:HE1	1.87	0.57
1:Y:217:GLY:O	1:e:209:GLY:CA	2.45	0.56
1:K:210:SFE:HD1	1:m:210:SFE:CD2	2.22	0.56
1:A:210:SFE:CA	1:E:216:SFE:O	2.44	0.56
1:N:215:ASN:O	1:s:215:ASN:CB	2.53	0.56
1:P:216:SFE:CD2	1:w:216:SFE:HD1	2.36	0.56
1:O:216:SFE:HE2	1:u:216:SFE:CE1	2.36	0.56
1:D:217:GLY:O	1:G:209:GLY:CA	2.45	0.56
1:C:210:SFE:HA2C	1:W:210:SFE:O	2.06	0.56
1:A:210:SFE:HA2C	1:S:210:SFE:O	2.05	0.56
1:P:214:ASP:CB	1:w:214:ASP:OD1	2.54	0.56
1:H:217:GLY:CA	1:g:216:SFE:O	2.50	0.56
1:K:210:SFE:CE1	1:m:210:SFE:HE2	2.23	0.56
1:W:210:SFE:HD2	1:X:210:SFE:CD1	2.31	0.56
1:B:210:SFE:HD2	1:U:210:SFE:HB	1.87	0.56
1:J:216:SFE:CE2	1:m:216:SFE:HE1	2.36	0.56
1:a:214:ASP:CB	1:b:214:ASP:OD1	2.54	0.56
1:S:210:SFE:CA	1:a:216:SFE:O	2.44	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:210:SFE:CE2	1:l:211:GLY:CA	2.78	0.56
1:k:217:GLY:O	1:l:217:GLY:HA2	2.06	0.55
1:G:215:ASN:CB	1:e:215:ASN:O	2.54	0.55
1:u:216:SFE:CD2	1:v:216:SFE:HD1	2.36	0.55
1:B:213:ASN:OD1	1:U:213:ASN:HB3	2.05	0.55
1:J:217:GLY:O	1:k:217:GLY:HA2	2.07	0.55
1:W:210:SFE:CE2	1:k:211:GLY:CA	2.78	0.55
1:u:210:SFE:HE2	1:v:210:SFE:CB	2.37	0.55
1:g:209:GLY:CA	1:h:209:GLY:O	2.55	0.55
1:e:217:GLY:O	1:f:217:GLY:HA2	2.07	0.55
1:C:210:SFE:CE2	1:J:211:GLY:CA	2.78	0.55
1:T:210:SFE:CA	1:b:216:SFE:O	2.45	0.55
1:x:215:ASN:O	1:1:210:SFE:CZ	2.48	0.54
1:u:214:ASP:CB	1:v:214:ASP:OD1	2.55	0.54
1:P:210:SFE:CE2	1:w:210:SFE:CB	2.85	0.54
1:U:214:ASP:CB	1:V:214:ASP:OD1	2.55	0.54
1:O:216:SFE:CD2	1:u:216:SFE:HD1	2.37	0.54
1:i:210:SFE:CD2	1:o:216:SFE:HZ	2.38	0.54
1:o:215:ASN:O	1:p:215:ASN:CB	2.55	0.54
1:s:215:ASN:O	1:t:215:ASN:CB	2.55	0.54
1:w:215:ASN:O	1:0:210:SFE:CZ	2.48	0.54
1:j:210:SFE:CD2	1:p:216:SFE:HZ	2.38	0.54
1:M:210:SFE:CD2	1:N:216:SFE:HZ	2.38	0.54
1:I:210:SFE:CD2	1:L:216:SFE:HZ	2.38	0.54
1:Q:216:SFE:CZ	1:E:216:SFE:CZ	2.84	0.54
1:q:210:SFE:CD2	1:s:216:SFE:HZ	2.38	0.54
1:k:213:ASN:OD1	1:l:213:ASN:HB2	2.08	0.53
1:E:214:ASP:CB	1:a:214:ASP:OD1	2.56	0.53
1:q:216:SFE:HD1	1:r:216:SFE:HA1C	1.90	0.53
1:U:216:SFE:HD2	1:V:216:SFE:HD1	1.87	0.53
1:r:210:SFE:CD2	1:t:216:SFE:HZ	2.38	0.53
1:B:216:SFE:HD2	1:U:216:SFE:HD1	1.87	0.53
1:P:215:ASN:O	1:R:210:SFE:CZ	2.48	0.53
1:y:216:SFE:CZ	1:a:216:SFE:CZ	2.84	0.53
1:C:210:SFE:HD2	1:W:210:SFE:CD1	2.34	0.53
1:H:210:SFE:HD1	1:g:210:SFE:CD2	2.24	0.53
1:Q:213:ASN:H	1:y:213:ASN:HB2	1.73	0.53
1:y:216:SFE:CZ	1:a:216:SFE:HE1	2.38	0.52
1:z:216:SFE:CZ	1:b:216:SFE:CZ	2.84	0.52
1:Q:216:SFE:CZ	1:E:216:SFE:HE1	2.38	0.52
1:w:210:SFE:HE2	1:x:210:SFE:HB	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:214:ASP:HB2	1:x:214:ASP:OD1	2.09	0.52
1:z:216:SFE:CZ	1:b:216:SFE:HE1	2.38	0.52
1:B:214:ASP:CB	1:U:214:ASP:OD1	2.57	0.52
1:0:213:ASN:H	1:1:213:ASN:HB2	1.73	0.52
1:F:210:SFE:HZ	1:M:210:SFE:O	2.10	0.52
1:y:213:ASN:H	1:z:213:ASN:HB2	1.74	0.52
1:c:210:SFE:HZ	1:q:210:SFE:O	2.10	0.52
1:d:210:SFE:HZ	1:r:210:SFE:O	2.10	0.52
1:M:216:SFE:HD1	1:q:216:SFE:HA1C	1.91	0.52
1:c:215:ASN:O	1:d:215:ASN:HA	2.09	0.52
1:H:209:GLY:CA	1:g:209:GLY:O	2.58	0.52
1:y:213:ASN:H	1:z:213:ASN:HB3	1.74	0.52
1:D:210:SFE:HZ	1:I:210:SFE:O	2.10	0.52
1:G:216:SFE:CZ	1:g:216:SFE:HE1	2.39	0.52
1:m:209:GLY:CA	1:n:209:GLY:O	2.56	0.52
1:G:217:GLY:O	1:e:217:GLY:HA2	2.09	0.52
1:P:214:ASP:HB2	1:w:214:ASP:OD1	2.10	0.52
1:O:210:SFE:HE2	1:u:210:SFE:CB	2.40	0.51
1:Y:210:SFE:HZ	1:i:210:SFE:O	2.10	0.51
1:U:216:SFE:HE2	1:V:216:SFE:HE1	1.90	0.51
1:O:214:ASP:CB	1:u:214:ASP:OD1	2.58	0.51
1:0:213:ASN:H	1:1:213:ASN:HB3	1.75	0.51
1:e:213:ASN:OD1	1:f:213:ASN:HB2	2.10	0.51
1:w:216:SFE:CE2	1:x:216:SFE:CE1	2.89	0.51
1:L:215:ASN:O	1:o:215:ASN:CB	2.57	0.51
1:Z:210:SFE:HZ	1:j:210:SFE:O	2.10	0.51
1:B:216:SFE:HE2	1:U:216:SFE:HE1	1.91	0.51
1:S:210:SFE:CE2	1:T:210:SFE:HE1	2.34	0.51
1:R:213:ASN:H	1:0:213:ASN:HB3	1.76	0.51
1:W:210:SFE:HE2	1:k:211:GLY:HA2	1.90	0.51
1:F:210:SFE:HB	1:c:210:SFE:HD1	1.92	0.51
1:F:215:ASN:O	1:c:215:ASN:HA	2.11	0.51
1:w:216:SFE:CD2	1:x:216:SFE:CD1	2.89	0.51
1:d:216:SFE:CZ	1:l:215:ASN:ND2	2.74	0.51
1:R:213:ASN:H	1:0:213:ASN:HB2	1.75	0.51
1:J:213:ASN:OD1	1:k:213:ASN:HB2	2.11	0.51
1:c:216:SFE:CZ	1:k:215:ASN:ND2	2.74	0.51
1:Q:214:ASP:OD1	1:Q:214:ASP:O	2.29	0.51
1:Y:216:SFE:CZ	1:e:215:ASN:ND2	2.74	0.51
1:y:214:ASP:OD1	1:y:214:ASP:O	2.29	0.51
1:e:216:SFE:CZ	1:h:216:SFE:HE1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:216:SFE:CZ	1:f:215:ASN:ND2	2.74	0.51
1:D:216:SFE:CZ	1:G:215:ASN:ND2	2.74	0.50
1:Q:213:ASN:H	1:y:213:ASN:HB3	1.76	0.50
1:S:210:SFE:HD2	1:T:210:SFE:CD1	2.33	0.50
1:z:214:ASP:OD1	1:z:214:ASP:O	2.29	0.50
1:F:216:SFE:CZ	1:J:215:ASN:ND2	2.74	0.50
1:K:209:GLY:CA	1:m:209:GLY:O	2.57	0.50
1:A:210:SFE:CE2	1:S:210:SFE:HE1	2.35	0.50
1:A:210:SFE:HE2	1:G:211:GLY:HA2	1.90	0.50
1:c:210:SFE:HB	1:d:210:SFE:HD1	1.93	0.50
1:X:210:SFE:HE2	1:l:211:GLY:HA2	1.90	0.50
1:W:210:SFE:CE2	1:X:210:SFE:HE1	2.32	0.50
1:G:213:ASN:OD1	1:e:213:ASN:HB2	2.12	0.49
1:H:210:SFE:CE1	1:g:210:SFE:HE2	2.25	0.49
1:Y:215:ASN:O	1:Z:215:ASN:HA	2.12	0.49
1:u:214:ASP:HB2	1:v:214:ASP:OD1	2.12	0.49
1:S:210:SFE:HE2	1:e:211:GLY:HA2	1.90	0.49
1:D:212:GLY:HA2	1:O:209:GLY:N	2.26	0.49
1:K:215:ASN:HB3	1:m:215:ASN:O	2.12	0.49
1:R:214:ASP:OD1	1:R:214:ASP:O	2.29	0.49
1:O:215:ASN:O	1:Q:210:SFE:CZ	2.48	0.49
1:K:215:ASN:CB	1:m:215:ASN:C	2.86	0.49
1:K:215:ASN:ND2	1:m:215:ASN:O	2.46	0.49
1:0:214:ASP:OD1	1:0:214:ASP:O	2.29	0.49
1:Z:212:GLY:HA2	1:v:209:GLY:N	2.26	0.49
1:g:215:ASN:CB	1:h:215:ASN:C	2.85	0.49
1:P:216:SFE:CE2	1:w:216:SFE:CE1	2.91	0.49
1:Y:212:GLY:HA2	1:u:209:GLY:N	2.27	0.49
1:1:214:ASP:OD1	1:1:214:ASP:O	2.29	0.49
1:u:210:SFE:CE2	1:v:210:SFE:CB	2.87	0.49
1:u:215:ASN:O	1:y:210:SFE:CZ	2.48	0.49
1:m:215:ASN:CB	1:n:215:ASN:C	2.86	0.49
1:m:215:ASN:HB2	1:n:215:ASN:C	2.37	0.49
1:d:212:GLY:HA2	1:x:209:GLY:N	2.26	0.49
1:A:210:SFE:HD2	1:S:210:SFE:CD1	2.34	0.49
1:K:215:ASN:HB2	1:m:215:ASN:C	2.38	0.48
1:c:212:GLY:HA2	1:w:209:GLY:N	2.26	0.48
1:k:216:SFE:CZ	1:n:216:SFE:HE1	2.43	0.48
1:P:216:SFE:CD2	1:w:216:SFE:CD1	2.91	0.48
1:Y:210:SFE:HB	1:Z:210:SFE:HD1	1.95	0.48
1:g:216:SFE:CZ	1:e:216:SFE:HE2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:210:SFE:HE2	1:f:211:GLY:HA2	1.90	0.48
1:h:216:SFE:CZ	1:f:216:SFE:HE2	2.43	0.48
1:v:215:ASN:O	1:z:210:SFE:CZ	2.48	0.48
1:F:212:GLY:HA2	1:P:209:GLY:N	2.26	0.48
1:d:209:GLY:HA2	1:r:212:GLY:HA2	1.95	0.48
1:H:216:SFE:CZ	1:G:216:SFE:HE2	2.43	0.48
1:c:209:GLY:HA2	1:q:212:GLY:HA2	1.95	0.48
1:D:209:GLY:HA2	1:I:212:GLY:HA2	1.95	0.48
1:F:212:GLY:HA3	1:P:209:GLY:CA	2.44	0.48
1:F:209:GLY:HA2	1:M:212:GLY:HA2	1.95	0.48
1:Y:209:GLY:HA2	1:i:212:GLY:HA2	1.95	0.48
1:r:210:SFE:CD1	1:t:210:SFE:CE1	2.90	0.48
1:D:212:GLY:HA3	1:O:209:GLY:CA	2.44	0.48
1:g:215:ASN:HB2	1:h:215:ASN:C	2.38	0.48
1:i:216:SFE:HD1	1:j:216:SFE:HA1C	1.95	0.48
1:u:216:SFE:CE2	1:v:216:SFE:CE1	2.92	0.48
1:J:216:SFE:CZ	1:m:216:SFE:HE1	2.44	0.48
1:Y:212:GLY:HA3	1:u:209:GLY:CA	2.44	0.48
1:c:212:GLY:HA3	1:w:209:GLY:CA	2.44	0.48
1:Z:212:GLY:HA3	1:v:209:GLY:CA	2.44	0.48
1:S:210:SFE:HB	1:T:210:SFE:HD1	1.95	0.48
1:g:215:ASN:HB3	1:h:215:ASN:O	2.09	0.48
1:Z:209:GLY:HA2	1:j:212:GLY:HA2	1.95	0.47
1:d:212:GLY:HA3	1:x:209:GLY:CA	2.44	0.47
1:n:216:SFE:CZ	1:l:216:SFE:HE2	2.44	0.47
1:u:216:SFE:CD2	1:v:216:SFE:CD1	2.92	0.47
1:g:215:ASN:ND2	1:h:215:ASN:O	2.46	0.47
1:m:212:GLY:CA	1:n:212:GLY:O	2.62	0.47
1:q:210:SFE:CD1	1:s:210:SFE:CE1	2.90	0.47
1:j:210:SFE:CD1	1:p:210:SFE:CE1	2.90	0.47
1:i:210:SFE:CD1	1:o:210:SFE:CE1	2.90	0.47
1:m:216:SFE:CZ	1:k:216:SFE:HE2	2.43	0.47
1:I:210:SFE:CD1	1:L:210:SFE:CE1	2.90	0.47
1:C:210:SFE:CE2	1:W:210:SFE:HE1	2.35	0.47
1:K:216:SFE:CZ	1:J:216:SFE:HE2	2.43	0.47
1:M:214:ASP:HB2	1:q:214:ASP:OD1	2.15	0.47
1:m:215:ASN:ND2	1:n:215:ASN:O	2.48	0.47
1:O:214:ASP:HA	1:l:214:ASP:O	2.14	0.47
1:w:214:ASP:HB3	1:x:214:ASP:OD1	2.14	0.47
1:M:210:SFE:CD1	1:N:210:SFE:CE1	2.90	0.47
1:A:210:SFE:HB	1:S:210:SFE:HD1	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:210:SFE:HB	1:X:210:SFE:HD1	1.97	0.46
1:d:215:ASN:HD22	1:x:216:SFE:HD1	1.80	0.46
1:U:213:ASN:OD1	1:V:213:ASN:HB2	2.15	0.46
1:C:210:SFE:HA1C	1:W:210:SFE:HD1	1.96	0.46
1:c:215:ASN:HD22	1:w:216:SFE:HD1	1.80	0.46
1:F:215:ASN:HD22	1:P:216:SFE:HD1	1.80	0.46
1:S:210:SFE:HA1C	1:T:210:SFE:HD1	1.97	0.46
1:W:210:SFE:HA1C	1:X:210:SFE:HD1	1.96	0.46
1:D:212:GLY:CA	1:O:209:GLY:HA2	2.41	0.46
1:w:216:SFE:CD2	1:d:215:ASN:HD22	2.29	0.46
1:P:214:ASP:HB3	1:w:214:ASP:OD1	2.15	0.46
1:y:216:SFE:CE1	1:z:216:SFE:CD2	2.94	0.46
1:q:214:ASP:HB2	1:r:214:ASP:OD1	2.16	0.46
1:Z:215:ASN:HD22	1:v:216:SFE:HD1	1.80	0.46
1:D:215:ASN:O	1:Y:215:ASN:HA	2.16	0.46
1:w:213:ASN:OD1	1:x:213:ASN:HB3	2.16	0.46
1:w:214:ASP:HA	1:x:214:ASP:O	2.16	0.46
1:H:215:ASN:CB	1:g:215:ASN:C	2.88	0.46
1:O:214:ASP:HB2	1:u:214:ASP:OD1	2.16	0.46
1:O:216:SFE:CE2	1:u:216:SFE:CE1	2.94	0.46
1:P:216:SFE:HA1C	1:R:210:SFE:HE1	1.98	0.46
1:w:216:SFE:CE2	1:x:216:SFE:CD1	2.94	0.46
1:k:217:GLY:O	1:l:217:GLY:CA	2.63	0.46
1:Z:212:GLY:CA	1:v:209:GLY:HA2	2.41	0.46
1:x:216:SFE:HA1C	1:1:210:SFE:HE1	1.98	0.46
1:I:216:SFE:HD1	1:i:216:SFE:HA1C	1.97	0.46
1:Y:215:ASN:HD22	1:u:216:SFE:HD1	1.80	0.46
1:w:216:SFE:HA1C	1:0:210:SFE:HE1	1.98	0.46
1:d:212:GLY:CA	1:x:209:GLY:HA2	2.41	0.46
1:Q:216:SFE:CE1	1:y:216:SFE:CD2	2.94	0.45
1:C:210:SFE:HB	1:W:210:SFE:HD1	1.98	0.45
1:Y:212:GLY:CA	1:u:209:GLY:HA2	2.41	0.45
1:u:214:ASP:HB3	1:v:214:ASP:OD1	2.16	0.45
1:u:216:SFE:CE2	1:v:216:SFE:CD1	2.94	0.45
1:D:215:ASN:HD22	1:O:216:SFE:HD1	1.80	0.45
1:O:216:SFE:CD2	1:u:216:SFE:CD1	2.94	0.45
1:K:212:GLY:CA	1:m:212:GLY:O	2.64	0.45
1:g:212:GLY:CA	1:h:212:GLY:O	2.64	0.45
1:0:216:SFE:CE1	1:1:216:SFE:CD2	2.95	0.45
1:H:215:ASN:ND2	1:g:215:ASN:O	2.48	0.45
1:O:210:SFE:CE2	1:u:210:SFE:CB	2.91	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:216:SFE:O	1:G:217:GLY:C	2.59	0.45
1:c:212:GLY:CA	1:w:209:GLY:HA2	2.41	0.45
1:H:215:ASN:HB3	1:g:215:ASN:O	2.10	0.45
1:P:214:ASP:HA	1:w:214:ASP:O	2.17	0.45
1:P:216:SFE:CE2	1:w:216:SFE:CD1	2.95	0.45
1:v:216:SFE:HA1C	1:z:210:SFE:HE1	1.98	0.45
1:u:216:SFE:HA1C	1:y:210:SFE:HE1	1.98	0.45
1:e:216:SFE:O	1:e:217:GLY:C	2.59	0.45
1:D:210:SFE:HB	1:Y:210:SFE:HD1	1.99	0.45
1:O:216:SFE:HA1C	1:Q:210:SFE:HE1	1.98	0.45
1:J:216:SFE:O	1:J:217:GLY:C	2.59	0.45
1:f:216:SFE:O	1:f:217:GLY:C	2.59	0.45
1:k:216:SFE:O	1:k:217:GLY:C	2.59	0.45
1:H:215:ASN:HB2	1:g:215:ASN:C	2.41	0.44
1:i:214:ASP:HB2	1:j:214:ASP:OD1	2.17	0.44
1:u:214:ASP:HA	1:v:214:ASP:O	2.17	0.44
1:u:215:ASN:OD1	1:v:215:ASN:CB	2.65	0.44
1:U:214:ASP:HA	1:V:214:ASP:O	2.17	0.44
1:O:216:SFE:CE2	1:u:216:SFE:CD1	2.95	0.44
1:k:210:SFE:CE1	1:l:210:SFE:CE2	2.54	0.44
1:l:216:SFE:O	1:l:217:GLY:C	2.59	0.44
1:F:212:GLY:CA	1:P:209:GLY:HA2	2.41	0.44
1:Y:210:SFE:CD2	1:Z:210:SFE:CD1	2.87	0.44
1:s:215:ASN:OD1	1:t:215:ASN:HB3	2.18	0.44
1:a:213:ASN:OD1	1:b:213:ASN:HB2	2.17	0.44
1:P:213:ASN:OD1	1:w:213:ASN:HB3	2.18	0.44
1:J:217:GLY:O	1:k:217:GLY:CA	2.65	0.44
1:m:215:ASN:HB3	1:n:215:ASN:H	1.82	0.44
1:w:215:ASN:OD1	1:x:215:ASN:CB	2.62	0.44
1:m:212:GLY:HA3	1:n:212:GLY:O	2.18	0.44
1:O:214:ASP:HA	1:u:214:ASP:O	2.18	0.44
1:O:214:ASP:HB3	1:u:214:ASP:OD1	2.18	0.43
1:B:213:ASN:OD1	1:U:213:ASN:HB2	2.18	0.43
1:R:214:ASP:HA	1:O:214:ASP:O	2.18	0.43
1:e:217:GLY:O	1:f:217:GLY:CA	2.66	0.43
1:O:209:GLY:O	1:1:209:GLY:HA2	2.18	0.43
1:F:210:SFE:CD2	1:c:210:SFE:CD1	2.86	0.43
1:s:216:SFE:HA1C	1:t:216:SFE:HD1	2.00	0.43
1:X:210:SFE:CD2	1:l:211:GLY:HA2	2.45	0.43
1:R:216:SFE:CE1	1:O:216:SFE:CD2	2.96	0.43
1:q:210:SFE:HE2	1:s:213:ASN:HD21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:210:SFE:HA1C	1:S:210:SFE:HD1	2.00	0.43
1:M:210:SFE:HE2	1:N:213:ASN:HD21	1.83	0.43
1:r:210:SFE:HE2	1:t:213:ASN:HD21	1.83	0.43
1:k:210:SFE:CD1	1:l:210:SFE:CD2	2.53	0.43
1:O:216:SFE:CD2	1:Y:215:ASN:HD22	2.32	0.43
1:y:214:ASP:HA	1:z:214:ASP:O	2.17	0.43
1:I:210:SFE:CD1	1:L:210:SFE:CZ	2.97	0.43
1:Y:210:SFE:CE2	1:Z:210:SFE:CE1	2.88	0.43
1:i:210:SFE:CD1	1:o:210:SFE:CZ	2.97	0.43
1:B:216:SFE:CD1	1:R:216:SFE:HZ	2.39	0.43
1:N:215:ASN:OD1	1:s:215:ASN:HB3	2.19	0.43
1:W:210:SFE:CD2	1:k:211:GLY:HA2	2.45	0.43
1:M:210:SFE:CD1	1:N:210:SFE:CZ	2.97	0.43
1:q:215:ASN:CB	1:r:215:ASN:O	2.66	0.43
1:w:210:SFE:HD2	1:x:210:SFE:CB	2.33	0.43
1:j:210:SFE:CD1	1:p:210:SFE:CZ	2.97	0.43
1:j:213:ASN:O	1:j:215:ASN:OD1	2.37	0.43
1:P:216:SFE:CD2	1:c:215:ASN:HD22	2.32	0.42
1:i:213:ASN:O	1:i:215:ASN:OD1	2.37	0.42
1:q:210:SFE:CD1	1:s:210:SFE:CZ	2.97	0.42
1:j:210:SFE:HE2	1:p:213:ASN:HD21	1.83	0.42
1:D:210:SFE:CD2	1:Y:210:SFE:CD1	2.90	0.42
1:I:210:SFE:HE2	1:L:213:ASN:HD21	1.83	0.42
1:i:210:SFE:HE2	1:o:213:ASN:HD21	1.83	0.42
1:T:210:SFE:CD2	1:f:211:GLY:HA2	2.45	0.42
1:r:210:SFE:CD1	1:t:210:SFE:CZ	2.97	0.42
1:B:214:ASP:HA	1:U:214:ASP:O	2.20	0.42
1:C:210:SFE:CD2	1:J:211:GLY:HA2	2.45	0.42
1:M:213:ASN:O	1:M:215:ASN:OD1	2.37	0.42
1:S:210:SFE:CB	1:T:210:SFE:HD1	2.49	0.42
1:H:212:GLY:CA	1:g:212:GLY:O	2.67	0.42
1:I:213:ASN:O	1:I:215:ASN:OD1	2.37	0.42
1:u:216:SFE:CD2	1:Z:215:ASN:HD22	2.32	0.42
1:q:213:ASN:O	1:q:215:ASN:OD1	2.37	0.42
1:r:213:ASN:O	1:r:215:ASN:OD1	2.37	0.42
1:i:215:ASN:CB	1:j:215:ASN:O	2.67	0.42
1:C:210:SFE:HE2	1:J:211:GLY:HA2	1.90	0.42
1:a:214:ASP:HA	1:b:214:ASP:O	2.19	0.42
1:F:210:SFE:CE2	1:c:210:SFE:CE1	2.87	0.42
1:P:215:ASN:OD1	1:w:215:ASN:CB	2.64	0.42
1:E:213:ASN:OD1	1:a:213:ASN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:215:ASN:HB3	1:h:215:ASN:C	2.44	0.42
1:U:210:SFE:CD2	1:V:210:SFE:CD1	2.87	0.42
1:O:215:ASN:OD1	1:u:215:ASN:CB	2.67	0.42
1:Q:214:ASP:HA	1:y:214:ASP:O	2.19	0.42
1:F:216:SFE:HZ	1:J:215:ASN:ND2	2.34	0.42
1:E:210:SFE:CD2	1:a:210:SFE:CD1	2.87	0.42
1:U:216:SFE:CD1	1:0:216:SFE:HZ	2.39	0.42
1:0:214:ASP:CB	1:1:214:ASP:OD1	2.65	0.42
1:S:210:SFE:CD2	1:e:211:GLY:HA2	2.45	0.42
1:u:213:ASN:OD1	1:v:213:ASN:HB3	2.19	0.42
1:A:216:SFE:O	1:A:217:GLY:O	2.38	0.42
1:Y:216:SFE:HZ	1:e:215:ASN:ND2	2.34	0.42
1:o:215:ASN:OD1	1:p:215:ASN:HB3	2.20	0.42
1:U:212:GLY:HA3	1:V:212:GLY:O	2.18	0.42
1:D:216:SFE:HZ	1:G:215:ASN:ND2	2.34	0.41
1:K:215:ASN:HB3	1:m:215:ASN:H	1.84	0.41
1:m:214:ASP:HB2	1:n:214:ASP:OD1	2.20	0.41
1:w:213:ASN:OD1	1:x:213:ASN:CB	2.68	0.41
1:0:215:ASN:O	1:1:215:ASN:CB	2.51	0.41
1:Z:216:SFE:HZ	1:f:215:ASN:ND2	2.35	0.41
1:e:214:ASP:OD1	1:f:214:ASP:HB3	2.20	0.41
1:C:216:SFE:O	1:C:217:GLY:O	2.38	0.41
1:S:216:SFE:O	1:S:217:GLY:O	2.38	0.41
1:c:216:SFE:HZ	1:k:215:ASN:ND2	2.34	0.41
1:W:216:SFE:O	1:W:217:GLY:O	2.38	0.41
1:D:210:SFE:CE2	1:Y:210:SFE:CE1	2.91	0.41
1:W:210:SFE:CB	1:X:210:SFE:HD1	2.51	0.41
1:T:216:SFE:O	1:T:217:GLY:O	2.38	0.41
1:A:210:SFE:CD2	1:G:211:GLY:HA2	2.45	0.41
1:I:214:ASP:HB2	1:i:214:ASP:OD1	2.20	0.41
1:U:210:SFE:CE2	1:V:210:SFE:CE1	2.88	0.41
1:m:215:ASN:HB3	1:n:215:ASN:O	2.12	0.41
1:X:216:SFE:O	1:X:217:GLY:O	2.38	0.41
1:D:213:ASN:HB3	1:O:216:SFE:HZ	2.02	0.41
1:K:212:GLY:HA3	1:m:212:GLY:O	2.21	0.41
1:M:215:ASN:CB	1:q:215:ASN:O	2.68	0.41
1:a:212:GLY:HA3	1:b:212:GLY:O	2.21	0.41
1:k:214:ASP:OD1	1:l:214:ASP:HB3	2.19	0.41
1:Z:213:ASN:HB3	1:v:216:SFE:HZ	2.02	0.41
1:Y:213:ASN:HB3	1:u:216:SFE:HZ	2.02	0.41
1:g:212:GLY:HA2	1:h:212:GLY:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:210:SFE:HD2	1:v:210:SFE:CB	2.36	0.41
1:V:216:SFE:CD1	1:1:216:SFE:HZ	2.39	0.41
1:d:216:SFE:HZ	1:l:215:ASN:ND2	2.35	0.41
1:c:210:SFE:CD2	1:d:210:SFE:CD1	2.88	0.41
1:m:212:GLY:HA2	1:n:212:GLY:O	2.20	0.41
1:d:210:SFE:CE2	1:r:211:GLY:HA3	2.50	0.41
1:D:210:SFE:CE2	1:I:211:GLY:HA3	2.50	0.41
1:Y:210:SFE:CE2	1:i:211:GLY:HA3	2.50	0.41
1:z:213:ASN:O	1:z:213:ASN:OD1	2.39	0.41
1:n:210:SFE:HB	1:n:211:GLY:H	1.69	0.41
1:y:213:ASN:OD1	1:y:213:ASN:O	2.39	0.40
1:0:213:ASN:OD1	1:0:213:ASN:O	2.39	0.40
1:Z:210:SFE:CE2	1:j:211:GLY:HA3	2.50	0.40
1:1:213:ASN:OD1	1:1:213:ASN:O	2.39	0.40
1:A:210:SFE:CB	1:S:210:SFE:HD1	2.51	0.40
1:Q:213:ASN:OD1	1:Q:213:ASN:O	2.39	0.40
1:F:213:ASN:CB	1:P:216:SFE:HZ	2.52	0.40
1:R:209:GLY:O	1:0:209:GLY:HA2	2.20	0.40
1:R:213:ASN:OD1	1:R:213:ASN:O	2.39	0.40
1:G:217:GLY:O	1:e:217:GLY:CA	2.69	0.40
1:F:210:SFE:CE2	1:M:211:GLY:HA3	2.50	0.40
1:K:212:GLY:HA2	1:m:212:GLY:O	2.21	0.40
1:P:210:SFE:HD2	1:w:210:SFE:CB	2.35	0.40
1:m:210:SFE:HB	1:m:211:GLY:H	1.69	0.40
1:B:210:SFE:CD2	1:U:210:SFE:CD1	2.89	0.40
1:K:210:SFE:HB	1:K:211:GLY:H	1.69	0.40
1:r:210:SFE:CD1	1:t:210:SFE:HZ	2.51	0.40
1:K:213:ASN:C	1:K:213:ASN:OD1	2.63	0.40
1:g:212:GLY:HA3	1:h:212:GLY:O	2.21	0.40
1:c:210:SFE:CE2	1:q:211:GLY:HA3	2.50	0.40
1:c:213:ASN:CB	1:w:216:SFE:HZ	2.52	0.40
1:s:215:ASN:O	1:t:215:ASN:HA	2.21	0.40
1:h:213:ASN:C	1:h:213:ASN:OD1	2.63	0.40
1:n:213:ASN:OD1	1:n:213:ASN:C	2.63	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	1	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	A	5/9 (56%)	5 (100%)	0	0	100	100
1	B	5/9 (56%)	5 (100%)	0	0	100	100
1	C	5/9 (56%)	5 (100%)	0	0	100	100
1	D	5/9 (56%)	5 (100%)	0	0	100	100
1	E	5/9 (56%)	5 (100%)	0	0	100	100
1	F	5/9 (56%)	5 (100%)	0	0	100	100
1	G	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	H	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	I	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	J	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	K	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	L	5/9 (56%)	3 (60%)	2 (40%)	0	100	100
1	M	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	N	5/9 (56%)	3 (60%)	2 (40%)	0	100	100
1	O	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	P	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	Q	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	R	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	S	5/9 (56%)	5 (100%)	0	0	100	100
1	T	5/9 (56%)	5 (100%)	0	0	100	100
1	U	5/9 (56%)	5 (100%)	0	0	100	100
1	V	5/9 (56%)	5 (100%)	0	0	100	100
1	W	5/9 (56%)	5 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	X	5/9 (56%)	5 (100%)	0	0	100	100
1	Y	5/9 (56%)	5 (100%)	0	0	100	100
1	Z	5/9 (56%)	5 (100%)	0	0	100	100
1	a	5/9 (56%)	5 (100%)	0	0	100	100
1	b	5/9 (56%)	5 (100%)	0	0	100	100
1	c	5/9 (56%)	5 (100%)	0	0	100	100
1	d	5/9 (56%)	5 (100%)	0	0	100	100
1	e	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	f	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	g	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	h	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	i	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	j	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	k	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	l	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	m	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	n	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	o	5/9 (56%)	3 (60%)	2 (40%)	0	100	100
1	p	5/9 (56%)	3 (60%)	2 (40%)	0	100	100
1	q	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	r	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	s	5/9 (56%)	3 (60%)	2 (40%)	0	100	100
1	t	5/9 (56%)	3 (60%)	2 (40%)	0	100	100
1	u	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	v	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	w	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	x	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	y	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
1	z	5/9 (56%)	4 (80%)	1 (20%)	0	100	100
All	All	270/486 (56%)	228 (84%)	42 (16%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	3/3 (100%)	3 (100%)	0	100	100
1	1	3/3 (100%)	3 (100%)	0	100	100
1	A	3/3 (100%)	3 (100%)	0	100	100
1	B	3/3 (100%)	3 (100%)	0	100	100
1	C	3/3 (100%)	3 (100%)	0	100	100
1	D	3/3 (100%)	3 (100%)	0	100	100
1	E	3/3 (100%)	3 (100%)	0	100	100
1	F	3/3 (100%)	3 (100%)	0	100	100
1	G	3/3 (100%)	3 (100%)	0	100	100
1	H	3/3 (100%)	3 (100%)	0	100	100
1	I	3/3 (100%)	3 (100%)	0	100	100
1	J	3/3 (100%)	3 (100%)	0	100	100
1	K	3/3 (100%)	3 (100%)	0	100	100
1	L	3/3 (100%)	3 (100%)	0	100	100
1	M	3/3 (100%)	3 (100%)	0	100	100
1	N	3/3 (100%)	3 (100%)	0	100	100
1	O	3/3 (100%)	3 (100%)	0	100	100
1	P	3/3 (100%)	3 (100%)	0	100	100
1	Q	3/3 (100%)	3 (100%)	0	100	100
1	R	3/3 (100%)	3 (100%)	0	100	100
1	S	3/3 (100%)	3 (100%)	0	100	100
1	T	3/3 (100%)	3 (100%)	0	100	100
1	U	3/3 (100%)	3 (100%)	0	100	100
1	V	3/3 (100%)	3 (100%)	0	100	100
1	W	3/3 (100%)	3 (100%)	0	100	100
1	X	3/3 (100%)	3 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Y	3/3 (100%)	3 (100%)	0	100	100
1	Z	3/3 (100%)	3 (100%)	0	100	100
1	a	3/3 (100%)	3 (100%)	0	100	100
1	b	3/3 (100%)	3 (100%)	0	100	100
1	c	3/3 (100%)	3 (100%)	0	100	100
1	d	3/3 (100%)	3 (100%)	0	100	100
1	e	3/3 (100%)	3 (100%)	0	100	100
1	f	3/3 (100%)	3 (100%)	0	100	100
1	g	3/3 (100%)	3 (100%)	0	100	100
1	h	3/3 (100%)	3 (100%)	0	100	100
1	i	3/3 (100%)	3 (100%)	0	100	100
1	j	3/3 (100%)	3 (100%)	0	100	100
1	k	3/3 (100%)	3 (100%)	0	100	100
1	l	3/3 (100%)	3 (100%)	0	100	100
1	m	3/3 (100%)	3 (100%)	0	100	100
1	n	3/3 (100%)	3 (100%)	0	100	100
1	o	3/3 (100%)	3 (100%)	0	100	100
1	p	3/3 (100%)	3 (100%)	0	100	100
1	q	3/3 (100%)	3 (100%)	0	100	100
1	r	3/3 (100%)	3 (100%)	0	100	100
1	s	3/3 (100%)	3 (100%)	0	100	100
1	t	3/3 (100%)	3 (100%)	0	100	100
1	u	3/3 (100%)	3 (100%)	0	100	100
1	v	3/3 (100%)	3 (100%)	0	100	100
1	w	3/3 (100%)	3 (100%)	0	100	100
1	x	3/3 (100%)	3 (100%)	0	100	100
1	y	3/3 (100%)	3 (100%)	0	100	100
1	z	3/3 (100%)	3 (100%)	0	100	100
All	All	162/162 (100%)	162 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are

no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

108 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
1	SFE	O	210	1	11,11,12	0.66	0	10,13,15	1.18	2 (20%)
1	SFE	O	216	1	11,11,12	0.63	0	10,13,15	0.67	1 (10%)
1	SFE	q	216	1	11,11,12	0.63	0	10,13,15	0.68	1 (10%)
1	SFE	Z	216	1	11,11,12	0.65	0	10,13,15	0.68	1 (10%)
1	SFE	G	210	1	11,11,12	0.64	0	10,13,15	0.70	1 (10%)
1	SFE	1	210	1	11,11,12	0.66	0	10,13,15	1.19	2 (20%)
1	SFE	h	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	S	216	1	11,11,12	1.03	1 (9%)	10,13,15	1.38	2 (20%)
1	SFE	W	216	1	11,11,12	1.03	1 (9%)	10,13,15	1.38	2 (20%)
1	SFE	c	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	L	216	1	11,11,12	0.64	0	10,13,15	0.63	0
1	SFE	H	216	1	11,11,12	1.64	1 (9%)	10,13,15	0.61	0
1	SFE	C	216	1	11,11,12	1.03	1 (9%)	10,13,15	1.38	2 (20%)
1	SFE	l	216	1	11,11,12	2.44	1 (9%)	10,13,15	2.12	2 (20%)
1	SFE	x	210	1	11,11,12	1.82	1 (9%)	10,13,15	0.77	1 (10%)
1	SFE	I	216	1	11,11,12	0.63	0	10,13,15	0.67	1 (10%)
1	SFE	F	216	1	11,11,12	0.65	0	10,13,15	0.68	1 (10%)
1	SFE	c	216	1	11,11,12	0.65	0	10,13,15	0.68	1 (10%)
1	SFE	D	216	1	11,11,12	0.65	0	10,13,15	0.68	1 (10%)
1	SFE	e	210	1	11,11,12	0.64	0	10,13,15	0.70	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	SFE	N	216	1	11,11,12	0.64	0	10,13,15	0.63	0
1	SFE	s	216	1	11,11,12	0.64	0	10,13,15	0.63	0
1	SFE	w	210	1	11,11,12	1.82	1 (9%)	10,13,15	0.76	1 (10%)
1	SFE	Q	216	1	11,11,12	1.35	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	L	210	1	11,11,12	1.33	1 (9%)	10,13,15	2.45	2 (20%)
1	SFE	a	210	1	11,11,12	0.62	0	10,13,15	0.62	0
1	SFE	P	216	1	11,11,12	0.64	0	10,13,15	0.67	1 (10%)
1	SFE	b	210	1	11,11,12	0.62	0	10,13,15	0.62	0
1	SFE	r	210	1	11,11,12	1.34	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	Y	216	1	11,11,12	0.65	0	10,13,15	0.68	1 (10%)
1	SFE	A	216	1	11,11,12	1.03	1 (9%)	10,13,15	1.38	2 (20%)
1	SFE	B	210	1	11,11,12	0.62	0	10,13,15	0.62	0
1	SFE	q	210	1	11,11,12	1.34	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	V	210	1	11,11,12	0.63	0	10,13,15	0.63	0
1	SFE	K	216	1	11,11,12	1.63	1 (9%)	10,13,15	0.61	0
1	SFE	p	216	1	11,11,12	0.64	0	10,13,15	0.63	0
1	SFE	f	210	1	11,11,12	0.64	0	10,13,15	0.70	1 (10%)
1	SFE	D	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	N	210	1	11,11,12	1.32	1 (9%)	10,13,15	2.45	2 (20%)
1	SFE	d	216	1	11,11,12	0.66	0	10,13,15	0.68	1 (10%)
1	SFE	m	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	M	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	o	216	1	11,11,12	0.64	0	10,13,15	0.63	0
1	SFE	z	216	1	11,11,12	1.35	1 (9%)	10,13,15	0.69	1 (10%)
1	SFE	0	216	1	11,11,12	1.35	1 (9%)	10,13,15	0.69	1 (10%)
1	SFE	k	216	1	11,11,12	2.43	1 (9%)	10,13,15	2.12	2 (20%)
1	SFE	O	210	1	11,11,12	1.83	1 (9%)	10,13,15	0.76	1 (10%)
1	SFE	A	210	1	11,11,12	0.61	0	10,13,15	0.73	1 (10%)
1	SFE	T	210	1	11,11,12	0.61	0	10,13,15	0.73	1 (10%)
1	SFE	G	216	1	11,11,12	2.44	1 (9%)	10,13,15	2.12	2 (20%)
1	SFE	J	210	1	11,11,12	0.63	0	10,13,15	0.70	1 (10%)
1	SFE	n	210	1	11,11,12	1.34	1 (9%)	10,13,15	0.69	1 (10%)
1	SFE	1	216	1	11,11,12	1.36	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	R	210	1	11,11,12	0.66	0	10,13,15	1.18	2 (20%)
1	SFE	C	210	1	11,11,12	0.61	0	10,13,15	0.73	1 (10%)
1	SFE	l	210	1	11,11,12	0.64	0	10,13,15	0.70	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	SFE	v	210	1	11,11,12	1.83	1 (9%)	10,13,15	0.76	1 (10%)
1	SFE	b	216	1	11,11,12	0.64	0	10,13,15	0.68	1 (10%)
1	SFE	U	216	1	11,11,12	0.65	0	10,13,15	0.67	1 (10%)
1	SFE	X	210	1	11,11,12	0.62	0	10,13,15	0.73	1 (10%)
1	SFE	B	216	1	11,11,12	0.64	0	10,13,15	0.68	1 (10%)
1	SFE	t	210	1	11,11,12	1.33	1 (9%)	10,13,15	2.45	2 (20%)
1	SFE	g	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	R	216	1	11,11,12	1.36	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	j	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	Z	210	1	11,11,12	1.34	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	s	210	1	11,11,12	1.33	1 (9%)	10,13,15	2.45	2 (20%)
1	SFE	i	216	1	11,11,12	0.65	0	10,13,15	0.67	1 (10%)
1	SFE	P	210	1	11,11,12	1.83	1 (9%)	10,13,15	0.76	1 (10%)
1	SFE	y	216	1	11,11,12	1.34	1 (9%)	10,13,15	0.69	1 (10%)
1	SFE	S	210	1	11,11,12	0.61	0	10,13,15	0.72	1 (10%)
1	SFE	r	216	1	11,11,12	0.63	0	10,13,15	0.68	1 (10%)
1	SFE	V	216	1	11,11,12	0.65	0	10,13,15	0.68	1 (10%)
1	SFE	e	216	1	11,11,12	2.44	1 (9%)	10,13,15	2.12	2 (20%)
1	SFE	Q	210	1	11,11,12	0.66	0	10,13,15	1.18	2 (20%)
1	SFE	I	210	1	11,11,12	1.34	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	J	216	1	11,11,12	2.44	1 (9%)	10,13,15	2.12	2 (20%)
1	SFE	M	216	1	11,11,12	0.63	0	10,13,15	0.67	1 (10%)
1	SFE	o	210	1	11,11,12	1.32	1 (9%)	10,13,15	2.45	2 (20%)
1	SFE	E	210	1	11,11,12	0.62	0	10,13,15	0.63	0
1	SFE	w	216	1	11,11,12	0.63	0	10,13,15	0.67	1 (10%)
1	SFE	u	210	1	11,11,12	1.83	1 (9%)	10,13,15	0.76	1 (10%)
1	SFE	U	210	1	11,11,12	0.62	0	10,13,15	0.62	0
1	SFE	k	210	1	11,11,12	0.64	0	10,13,15	0.71	1 (10%)
1	SFE	p	210	1	11,11,12	1.33	1 (9%)	10,13,15	2.45	2 (20%)
1	SFE	H	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	n	216	1	11,11,12	1.65	1 (9%)	10,13,15	0.62	0
1	SFE	h	216	1	11,11,12	1.64	1 (9%)	10,13,15	0.61	0
1	SFE	F	210	1	11,11,12	1.34	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	m	216	1	11,11,12	1.64	1 (9%)	10,13,15	0.61	0
1	SFE	x	216	1	11,11,12	0.63	0	10,13,15	0.67	1 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	SFE	E	216	1	11,11,12	0.65	0	10,13,15	0.68	1 (10%)
1	SFE	v	216	1	11,11,12	0.64	0	10,13,15	0.67	1 (10%)
1	SFE	y	210	1	11,11,12	0.67	0	10,13,15	1.19	2 (20%)
1	SFE	d	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	Y	210	1	11,11,12	1.32	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	T	216	1	11,11,12	1.03	1 (9%)	10,13,15	1.38	2 (20%)
1	SFE	u	216	1	11,11,12	0.64	0	10,13,15	0.67	1 (10%)
1	SFE	z	210	1	11,11,12	0.67	0	10,13,15	1.18	2 (20%)
1	SFE	f	216	1	11,11,12	2.45	1 (9%)	10,13,15	2.12	2 (20%)
1	SFE	t	216	1	11,11,12	0.65	0	10,13,15	0.63	0
1	SFE	g	216	1	11,11,12	1.64	1 (9%)	10,13,15	0.61	0
1	SFE	j	216	1	11,11,12	0.63	0	10,13,15	0.68	1 (10%)
1	SFE	K	210	1	11,11,12	1.32	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	X	216	1	11,11,12	1.04	1 (9%)	10,13,15	1.38	2 (20%)
1	SFE	a	216	1	11,11,12	0.64	0	10,13,15	0.68	1 (10%)
1	SFE	i	210	1	11,11,12	1.33	1 (9%)	10,13,15	0.68	1 (10%)
1	SFE	W	210	1	11,11,12	0.61	0	10,13,15	0.73	1 (10%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	SFE	0	210	1	-	2/7/7/8	0/1/1/1
1	SFE	O	216	1	-	2/7/7/8	0/1/1/1
1	SFE	q	216	1	-	4/7/7/8	0/1/1/1
1	SFE	Z	216	1	-	0/7/7/8	0/1/1/1
1	SFE	G	210	1	-	3/7/7/8	0/1/1/1
1	SFE	l	210	1	-	2/7/7/8	0/1/1/1
1	SFE	h	210	1	-	5/7/7/8	0/1/1/1
1	SFE	S	216	1	-	1/7/7/8	0/1/1/1
1	SFE	W	216	1	-	1/7/7/8	0/1/1/1
1	SFE	c	210	1	-	3/7/7/8	0/1/1/1
1	SFE	L	216	1	-	3/7/7/8	0/1/1/1
1	SFE	H	216	1	-	3/7/7/8	0/1/1/1
1	SFE	C	216	1	-	1/7/7/8	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	SFE	l	216	1	-	0/7/7/8	0/1/1/1
1	SFE	x	210	1	-	3/7/7/8	0/1/1/1
1	SFE	I	216	1	-	4/7/7/8	0/1/1/1
1	SFE	F	216	1	-	0/7/7/8	0/1/1/1
1	SFE	c	216	1	-	0/7/7/8	0/1/1/1
1	SFE	D	216	1	-	0/7/7/8	0/1/1/1
1	SFE	e	210	1	-	3/7/7/8	0/1/1/1
1	SFE	N	216	1	-	3/7/7/8	0/1/1/1
1	SFE	s	216	1	-	3/7/7/8	0/1/1/1
1	SFE	w	210	1	-	3/7/7/8	0/1/1/1
1	SFE	Q	216	1	-	0/7/7/8	0/1/1/1
1	SFE	L	210	1	-	2/7/7/8	0/1/1/1
1	SFE	a	210	1	-	2/7/7/8	0/1/1/1
1	SFE	P	216	1	-	2/7/7/8	0/1/1/1
1	SFE	b	210	1	-	2/7/7/8	0/1/1/1
1	SFE	r	210	1	-	4/7/7/8	0/1/1/1
1	SFE	Y	216	1	-	0/7/7/8	0/1/1/1
1	SFE	A	216	1	-	1/7/7/8	0/1/1/1
1	SFE	B	210	1	-	2/7/7/8	0/1/1/1
1	SFE	q	210	1	-	4/7/7/8	0/1/1/1
1	SFE	V	210	1	-	2/7/7/8	0/1/1/1
1	SFE	K	216	1	-	3/7/7/8	0/1/1/1
1	SFE	p	216	1	-	3/7/7/8	0/1/1/1
1	SFE	f	210	1	-	3/7/7/8	0/1/1/1
1	SFE	D	210	1	-	3/7/7/8	0/1/1/1
1	SFE	N	210	1	-	2/7/7/8	0/1/1/1
1	SFE	d	216	1	-	0/7/7/8	0/1/1/1
1	SFE	m	210	1	-	5/7/7/8	0/1/1/1
1	SFE	M	210	1	-	4/7/7/8	0/1/1/1
1	SFE	o	216	1	-	3/7/7/8	0/1/1/1
1	SFE	z	216	1	-	0/7/7/8	0/1/1/1
1	SFE	0	216	1	-	0/7/7/8	0/1/1/1
1	SFE	k	216	1	-	0/7/7/8	0/1/1/1
1	SFE	O	210	1	-	3/7/7/8	0/1/1/1
1	SFE	A	210	1	-	2/7/7/8	0/1/1/1
1	SFE	T	210	1	-	2/7/7/8	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	SFE	G	216	1	-	0/7/7/8	0/1/1/1
1	SFE	J	210	1	-	3/7/7/8	0/1/1/1
1	SFE	n	210	1	-	5/7/7/8	0/1/1/1
1	SFE	l	216	1	-	0/7/7/8	0/1/1/1
1	SFE	R	210	1	-	2/7/7/8	0/1/1/1
1	SFE	C	210	1	-	2/7/7/8	0/1/1/1
1	SFE	l	210	1	-	3/7/7/8	0/1/1/1
1	SFE	v	210	1	-	3/7/7/8	0/1/1/1
1	SFE	b	216	1	-	4/7/7/8	0/1/1/1
1	SFE	U	216	1	-	4/7/7/8	0/1/1/1
1	SFE	X	210	1	-	2/7/7/8	0/1/1/1
1	SFE	B	216	1	-	4/7/7/8	0/1/1/1
1	SFE	t	210	1	-	2/7/7/8	0/1/1/1
1	SFE	g	210	1	-	5/7/7/8	0/1/1/1
1	SFE	R	216	1	-	0/7/7/8	0/1/1/1
1	SFE	j	210	1	-	4/7/7/8	0/1/1/1
1	SFE	Z	210	1	-	3/7/7/8	0/1/1/1
1	SFE	s	210	1	-	2/7/7/8	0/1/1/1
1	SFE	i	216	1	-	4/7/7/8	0/1/1/1
1	SFE	P	210	1	-	3/7/7/8	0/1/1/1
1	SFE	y	216	1	-	0/7/7/8	0/1/1/1
1	SFE	S	210	1	-	2/7/7/8	0/1/1/1
1	SFE	r	216	1	-	4/7/7/8	0/1/1/1
1	SFE	V	216	1	-	4/7/7/8	0/1/1/1
1	SFE	e	216	1	-	0/7/7/8	0/1/1/1
1	SFE	Q	210	1	-	2/7/7/8	0/1/1/1
1	SFE	I	210	1	-	4/7/7/8	0/1/1/1
1	SFE	J	216	1	-	0/7/7/8	0/1/1/1
1	SFE	M	216	1	-	4/7/7/8	0/1/1/1
1	SFE	o	210	1	-	2/7/7/8	0/1/1/1
1	SFE	E	210	1	-	2/7/7/8	0/1/1/1
1	SFE	w	216	1	-	2/7/7/8	0/1/1/1
1	SFE	u	210	1	-	3/7/7/8	0/1/1/1
1	SFE	U	210	1	-	2/7/7/8	0/1/1/1
1	SFE	k	210	1	-	3/7/7/8	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	SFE	p	210	1	-	2/7/7/8	0/1/1/1
1	SFE	H	210	1	-	5/7/7/8	0/1/1/1
1	SFE	n	216	1	-	3/7/7/8	0/1/1/1
1	SFE	h	216	1	-	3/7/7/8	0/1/1/1
1	SFE	F	210	1	-	3/7/7/8	0/1/1/1
1	SFE	m	216	1	-	3/7/7/8	0/1/1/1
1	SFE	x	216	1	-	2/7/7/8	0/1/1/1
1	SFE	E	216	1	-	4/7/7/8	0/1/1/1
1	SFE	v	216	1	-	2/7/7/8	0/1/1/1
1	SFE	y	210	1	-	2/7/7/8	0/1/1/1
1	SFE	d	210	1	-	3/7/7/8	0/1/1/1
1	SFE	Y	210	1	-	3/7/7/8	0/1/1/1
1	SFE	T	216	1	-	1/7/7/8	0/1/1/1
1	SFE	u	216	1	-	2/7/7/8	0/1/1/1
1	SFE	z	210	1	-	2/7/7/8	0/1/1/1
1	SFE	f	216	1	-	0/7/7/8	0/1/1/1
1	SFE	t	216	1	-	3/7/7/8	0/1/1/1
1	SFE	g	216	1	-	3/7/7/8	0/1/1/1
1	SFE	j	216	1	-	4/7/7/8	0/1/1/1
1	SFE	K	210	1	-	5/7/7/8	0/1/1/1
1	SFE	X	216	1	-	1/7/7/8	0/1/1/1
1	SFE	a	216	1	-	4/7/7/8	0/1/1/1
1	SFE	i	210	1	-	4/7/7/8	0/1/1/1
1	SFE	W	210	1	-	2/7/7/8	0/1/1/1

All (54) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f	216	SFE	CB-N	7.98	1.64	1.47
1	J	216	SFE	CB-N	7.96	1.64	1.47
1	e	216	SFE	CB-N	7.95	1.64	1.47
1	G	216	SFE	CB-N	7.95	1.64	1.47
1	l	216	SFE	CB-N	7.94	1.64	1.47
1	k	216	SFE	CB-N	7.92	1.64	1.47
1	v	210	SFE	CB-N	5.84	1.60	1.47
1	u	210	SFE	CB-N	5.82	1.60	1.47
1	O	210	SFE	CB-N	5.82	1.60	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	w	210	SFE	CB-N	5.82	1.60	1.47
1	P	210	SFE	CB-N	5.82	1.60	1.47
1	x	210	SFE	CB-N	5.80	1.60	1.47
1	n	216	SFE	CB-N	4.97	1.58	1.47
1	h	216	SFE	CB-N	4.95	1.58	1.47
1	m	216	SFE	CB-N	4.94	1.58	1.47
1	H	216	SFE	CB-N	4.93	1.58	1.47
1	g	216	SFE	CB-N	4.93	1.58	1.47
1	K	216	SFE	CB-N	4.90	1.58	1.47
1	R	216	SFE	CB-N	4.24	1.56	1.47
1	l	216	SFE	CB-N	4.22	1.56	1.47
1	0	216	SFE	CB-N	4.21	1.56	1.47
1	Q	216	SFE	CB-N	4.20	1.56	1.47
1	z	216	SFE	CB-N	4.20	1.56	1.47
1	q	210	SFE	CB-N	4.18	1.56	1.47
1	Z	210	SFE	CB-N	4.16	1.56	1.47
1	t	210	SFE	CB-N	4.16	1.56	1.47
1	y	216	SFE	CB-N	4.16	1.56	1.47
1	r	210	SFE	CB-N	4.16	1.56	1.47
1	I	210	SFE	CB-N	4.15	1.56	1.47
1	D	210	SFE	CB-N	4.15	1.56	1.47
1	p	210	SFE	CB-N	4.15	1.56	1.47
1	F	210	SFE	CB-N	4.15	1.56	1.47
1	n	210	SFE	CB-N	4.15	1.56	1.47
1	c	210	SFE	CB-N	4.15	1.56	1.47
1	H	210	SFE	CB-N	4.14	1.56	1.47
1	s	210	SFE	CB-N	4.14	1.56	1.47
1	M	210	SFE	CB-N	4.14	1.56	1.47
1	j	210	SFE	CB-N	4.14	1.56	1.47
1	m	210	SFE	CB-N	4.14	1.56	1.47
1	d	210	SFE	CB-N	4.14	1.56	1.47
1	L	210	SFE	CB-N	4.14	1.56	1.47
1	i	210	SFE	CB-N	4.14	1.56	1.47
1	g	210	SFE	CB-N	4.14	1.56	1.47
1	h	210	SFE	CB-N	4.13	1.56	1.47
1	o	210	SFE	CB-N	4.13	1.56	1.47
1	Y	210	SFE	CB-N	4.12	1.56	1.47
1	K	210	SFE	CB-N	4.11	1.56	1.47
1	N	210	SFE	CB-N	4.11	1.56	1.47
1	X	216	SFE	CB-N	3.07	1.53	1.47
1	C	216	SFE	CB-N	3.04	1.53	1.47
1	T	216	SFE	CB-N	3.04	1.53	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	216	SFE	CB-N	3.04	1.53	1.47
1	S	216	SFE	CB-N	3.04	1.53	1.47
1	W	216	SFE	CB-N	3.03	1.53	1.47

All (114) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	210	SFE	CB-CA-C	7.47	146.78	114.50
1	p	210	SFE	CB-CA-C	7.47	146.77	114.50
1	L	210	SFE	CB-CA-C	7.46	146.76	114.50
1	N	210	SFE	CB-CA-C	7.46	146.76	114.50
1	s	210	SFE	CB-CA-C	7.46	146.74	114.50
1	o	210	SFE	CB-CA-C	7.46	146.74	114.50
1	e	216	SFE	CB-CA-C	-6.35	87.05	114.50
1	f	216	SFE	CB-CA-C	-6.35	87.05	114.50
1	k	216	SFE	CB-CA-C	-6.35	87.06	114.50
1	G	216	SFE	CB-CA-C	-6.35	87.07	114.50
1	J	216	SFE	CB-CA-C	-6.34	87.08	114.50
1	l	216	SFE	CB-CA-C	-6.33	87.12	114.50
1	W	216	SFE	CB-CA-C	3.84	131.09	114.50
1	C	216	SFE	CB-CA-C	3.84	131.09	114.50
1	A	216	SFE	CB-CA-C	3.83	131.08	114.50
1	T	216	SFE	CB-CA-C	3.83	131.07	114.50
1	X	216	SFE	CB-CA-C	3.83	131.06	114.50
1	S	216	SFE	CB-CA-C	3.82	131.02	114.50
1	y	210	SFE	O-C-CA	-2.73	117.48	125.43
1	l	210	SFE	O-C-CA	-2.73	117.48	125.43
1	R	210	SFE	O-C-CA	-2.72	117.50	125.43
1	Q	210	SFE	O-C-CA	-2.72	117.50	125.43
1	z	210	SFE	O-C-CA	-2.71	117.52	125.43
1	0	210	SFE	O-C-CA	-2.71	117.52	125.43
1	0	210	SFE	CB-CA-C	2.55	125.54	114.50
1	z	210	SFE	CB-CA-C	2.55	125.54	114.50
1	l	210	SFE	CB-CA-C	2.55	125.53	114.50
1	Q	210	SFE	CB-CA-C	2.55	125.52	114.50
1	y	210	SFE	CB-CA-C	2.55	125.52	114.50
1	R	210	SFE	CB-CA-C	2.55	125.51	114.50
1	x	210	SFE	O-C-CA	-2.37	118.53	125.43
1	O	210	SFE	O-C-CA	-2.35	118.58	125.43
1	u	210	SFE	O-C-CA	-2.35	118.58	125.43
1	P	210	SFE	O-C-CA	-2.35	118.59	125.43
1	v	210	SFE	O-C-CA	-2.34	118.61	125.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	210	SFE	O-C-CA	-2.33	118.63	125.43
1	C	210	SFE	O-C-CA	-2.27	118.82	125.43
1	W	210	SFE	O-C-CA	-2.27	118.82	125.43
1	T	210	SFE	O-C-CA	-2.27	118.82	125.43
1	A	210	SFE	O-C-CA	-2.27	118.83	125.43
1	X	210	SFE	O-C-CA	-2.26	118.83	125.43
1	S	210	SFE	O-C-CA	-2.25	118.88	125.43
1	k	210	SFE	O-C-CA	-2.21	119.00	125.43
1	l	210	SFE	O-C-CA	-2.19	119.04	125.43
1	f	210	SFE	O-C-CA	-2.19	119.05	125.43
1	G	210	SFE	O-C-CA	-2.19	119.06	125.43
1	e	210	SFE	O-C-CA	-2.18	119.07	125.43
1	J	210	SFE	O-C-CA	-2.17	119.11	125.43
1	0	216	SFE	O-C-CA	-2.16	119.13	125.43
1	y	216	SFE	O-C-CA	-2.15	119.17	125.43
1	n	210	SFE	O-C-CA	-2.14	119.19	125.43
1	l	216	SFE	O-C-CA	-2.14	119.20	125.43
1	z	216	SFE	O-C-CA	-2.14	119.20	125.43
1	R	216	SFE	O-C-CA	-2.14	119.20	125.43
1	Q	216	SFE	O-C-CA	-2.13	119.21	125.43
1	Y	210	SFE	O-C-CA	-2.13	119.21	125.43
1	F	210	SFE	O-C-CA	-2.13	119.21	125.43
1	e	216	SFE	O-C-CA	-2.13	119.21	125.43
1	c	216	SFE	O-C-CA	-2.13	119.22	125.43
1	J	216	SFE	O-C-CA	-2.13	119.22	125.43
1	G	216	SFE	O-C-CA	-2.13	119.23	125.43
1	l	216	SFE	O-C-CA	-2.13	119.23	125.43
1	Z	210	SFE	O-C-CA	-2.13	119.23	125.43
1	D	210	SFE	O-C-CA	-2.12	119.24	125.43
1	Y	216	SFE	O-C-CA	-2.12	119.24	125.43
1	h	210	SFE	O-C-CA	-2.12	119.24	125.43
1	c	210	SFE	O-C-CA	-2.12	119.24	125.43
1	f	216	SFE	O-C-CA	-2.12	119.25	125.43
1	m	210	SFE	O-C-CA	-2.12	119.25	125.43
1	d	216	SFE	O-C-CA	-2.12	119.25	125.43
1	H	210	SFE	O-C-CA	-2.12	119.25	125.43
1	F	216	SFE	O-C-CA	-2.12	119.25	125.43
1	q	216	SFE	O-C-CA	-2.12	119.25	125.43
1	g	210	SFE	O-C-CA	-2.12	119.26	125.43
1	i	210	SFE	O-C-CA	-2.12	119.26	125.43
1	k	216	SFE	O-C-CA	-2.11	119.27	125.43
1	d	210	SFE	O-C-CA	-2.11	119.27	125.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	210	SFE	O-C-CA	-2.11	119.27	125.43
1	K	210	SFE	O-C-CA	-2.11	119.27	125.43
1	D	216	SFE	O-C-CA	-2.11	119.27	125.43
1	M	210	SFE	O-C-CA	-2.11	119.27	125.43
1	r	216	SFE	O-C-CA	-2.11	119.28	125.43
1	q	210	SFE	O-C-CA	-2.11	119.29	125.43
1	S	216	SFE	O-C-CA	-2.11	119.29	125.43
1	j	216	SFE	O-C-CA	-2.10	119.29	125.43
1	j	210	SFE	O-C-CA	-2.10	119.30	125.43
1	b	216	SFE	O-C-CA	-2.10	119.30	125.43
1	r	210	SFE	O-C-CA	-2.10	119.30	125.43
1	V	216	SFE	O-C-CA	-2.10	119.30	125.43
1	v	216	SFE	O-C-CA	-2.10	119.30	125.43
1	O	216	SFE	O-C-CA	-2.10	119.31	125.43
1	Z	216	SFE	O-C-CA	-2.10	119.31	125.43
1	x	216	SFE	O-C-CA	-2.10	119.31	125.43
1	s	210	SFE	O-C-CA	-2.10	119.32	125.43
1	P	216	SFE	O-C-CA	-2.10	119.32	125.43
1	w	216	SFE	O-C-CA	-2.09	119.32	125.43
1	E	216	SFE	O-C-CA	-2.09	119.33	125.43
1	B	216	SFE	O-C-CA	-2.09	119.33	125.43
1	I	216	SFE	O-C-CA	-2.09	119.34	125.43
1	M	216	SFE	O-C-CA	-2.09	119.34	125.43
1	i	216	SFE	O-C-CA	-2.09	119.34	125.43
1	a	216	SFE	O-C-CA	-2.09	119.34	125.43
1	N	210	SFE	O-C-CA	-2.09	119.35	125.43
1	U	216	SFE	O-C-CA	-2.09	119.35	125.43
1	o	210	SFE	O-C-CA	-2.08	119.36	125.43
1	C	216	SFE	O-C-CA	-2.08	119.36	125.43
1	L	210	SFE	O-C-CA	-2.08	119.37	125.43
1	u	216	SFE	O-C-CA	-2.08	119.37	125.43
1	t	210	SFE	O-C-CA	-2.08	119.37	125.43
1	W	216	SFE	O-C-CA	-2.08	119.38	125.43
1	T	216	SFE	O-C-CA	-2.07	119.39	125.43
1	X	216	SFE	O-C-CA	-2.07	119.39	125.43
1	A	216	SFE	O-C-CA	-2.07	119.39	125.43
1	p	210	SFE	O-C-CA	-2.07	119.40	125.43

There are no chirality outliers.

All (258) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	210	SFE	C-CA-CB-N
1	A	210	SFE	C-CA-CB-CG
1	H	210	SFE	O-C-CA-CB
1	H	210	SFE	C-CA-CB-N
1	H	210	SFE	C-CA-CB-CG
1	H	210	SFE	CA-CB-CG-CD2
1	H	210	SFE	CA-CB-CG-CD1
1	L	210	SFE	C-CA-CB-CG
1	O	210	SFE	O-C-CA-CB
1	O	210	SFE	C-CA-CB-CG
1	Q	210	SFE	C-CA-CB-N
1	G	210	SFE	C-CA-CB-CG
1	C	210	SFE	C-CA-CB-N
1	C	210	SFE	C-CA-CB-CG
1	K	210	SFE	O-C-CA-CB
1	K	210	SFE	C-CA-CB-N
1	K	210	SFE	C-CA-CB-CG
1	K	210	SFE	CA-CB-CG-CD2
1	K	210	SFE	CA-CB-CG-CD1
1	N	210	SFE	C-CA-CB-CG
1	P	210	SFE	O-C-CA-CB
1	P	210	SFE	C-CA-CB-CG
1	R	210	SFE	C-CA-CB-N
1	J	210	SFE	C-CA-CB-CG
1	S	210	SFE	C-CA-CB-N
1	S	210	SFE	C-CA-CB-CG
1	g	210	SFE	O-C-CA-CB
1	g	210	SFE	C-CA-CB-N
1	g	210	SFE	C-CA-CB-CG
1	g	210	SFE	CA-CB-CG-CD2
1	g	210	SFE	CA-CB-CG-CD1
1	o	210	SFE	C-CA-CB-CG
1	u	210	SFE	O-C-CA-CB
1	u	210	SFE	C-CA-CB-CG
1	y	210	SFE	C-CA-CB-N
1	e	210	SFE	C-CA-CB-CG
1	W	210	SFE	C-CA-CB-N
1	W	210	SFE	C-CA-CB-CG
1	m	210	SFE	O-C-CA-CB
1	m	210	SFE	C-CA-CB-N
1	m	210	SFE	C-CA-CB-CG
1	m	210	SFE	CA-CB-CG-CD2
1	m	210	SFE	CA-CB-CG-CD1

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Mol	Chain	Res	Type	Atoms
1	s	210	SFE	C-CA-CB-CG
1	w	210	SFE	O-C-CA-CB
1	w	210	SFE	C-CA-CB-CG
1	0	210	SFE	C-CA-CB-N
1	k	210	SFE	C-CA-CB-CG
1	T	210	SFE	C-CA-CB-N
1	T	210	SFE	C-CA-CB-CG
1	h	210	SFE	O-C-CA-CB
1	h	210	SFE	C-CA-CB-N
1	h	210	SFE	C-CA-CB-CG
1	h	210	SFE	CA-CB-CG-CD2
1	h	210	SFE	CA-CB-CG-CD1
1	p	210	SFE	C-CA-CB-CG
1	v	210	SFE	O-C-CA-CB
1	v	210	SFE	C-CA-CB-CG
1	z	210	SFE	C-CA-CB-N
1	f	210	SFE	C-CA-CB-CG
1	X	210	SFE	C-CA-CB-N
1	X	210	SFE	C-CA-CB-CG
1	n	210	SFE	O-C-CA-CB
1	n	210	SFE	C-CA-CB-N
1	n	210	SFE	C-CA-CB-CG
1	n	210	SFE	CA-CB-CG-CD2
1	n	210	SFE	CA-CB-CG-CD1
1	t	210	SFE	C-CA-CB-CG
1	x	210	SFE	O-C-CA-CB
1	x	210	SFE	C-CA-CB-CG
1	l	210	SFE	C-CA-CB-N
1	l	210	SFE	C-CA-CB-CG
1	A	216	SFE	C-CA-CB-N
1	H	216	SFE	C-CA-CB-CG
1	I	216	SFE	O-C-CA-CB
1	I	216	SFE	C-CA-CB-CG
1	I	216	SFE	CA-CB-CG-CD2
1	I	216	SFE	CA-CB-CG-CD1
1	L	216	SFE	CA-CB-CG-CD2
1	L	216	SFE	CA-CB-CG-CD1
1	O	216	SFE	C-CA-CB-CG
1	B	216	SFE	C-CA-CB-CG
1	B	216	SFE	CA-CB-CG-CD2
1	B	216	SFE	CA-CB-CG-CD1
1	C	216	SFE	C-CA-CB-N

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Mol	Chain	Res	Type	Atoms
1	K	216	SFE	C-CA-CB-CG
1	M	216	SFE	O-C-CA-CB
1	M	216	SFE	C-CA-CB-CG
1	M	216	SFE	CA-CB-CG-CD2
1	M	216	SFE	CA-CB-CG-CD1
1	N	216	SFE	CA-CB-CG-CD2
1	N	216	SFE	CA-CB-CG-CD1
1	P	216	SFE	C-CA-CB-CG
1	E	216	SFE	C-CA-CB-CG
1	E	216	SFE	CA-CB-CG-CD2
1	E	216	SFE	CA-CB-CG-CD1
1	S	216	SFE	C-CA-CB-N
1	g	216	SFE	C-CA-CB-CG
1	i	216	SFE	O-C-CA-CB
1	i	216	SFE	C-CA-CB-CG
1	i	216	SFE	CA-CB-CG-CD2
1	i	216	SFE	CA-CB-CG-CD1
1	o	216	SFE	CA-CB-CG-CD2
1	o	216	SFE	CA-CB-CG-CD1
1	u	216	SFE	C-CA-CB-CG
1	U	216	SFE	C-CA-CB-CG
1	U	216	SFE	CA-CB-CG-CD2
1	U	216	SFE	CA-CB-CG-CD1
1	W	216	SFE	C-CA-CB-N
1	m	216	SFE	C-CA-CB-CG
1	q	216	SFE	O-C-CA-CB
1	q	216	SFE	C-CA-CB-CG
1	q	216	SFE	CA-CB-CG-CD2
1	q	216	SFE	CA-CB-CG-CD1
1	s	216	SFE	CA-CB-CG-CD2
1	s	216	SFE	CA-CB-CG-CD1
1	w	216	SFE	C-CA-CB-CG
1	a	216	SFE	C-CA-CB-CG
1	a	216	SFE	CA-CB-CG-CD2
1	a	216	SFE	CA-CB-CG-CD1
1	T	216	SFE	C-CA-CB-N
1	h	216	SFE	C-CA-CB-CG
1	j	216	SFE	O-C-CA-CB
1	j	216	SFE	C-CA-CB-CG
1	j	216	SFE	CA-CB-CG-CD2
1	j	216	SFE	CA-CB-CG-CD1
1	p	216	SFE	CA-CB-CG-CD2

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Mol	Chain	Res	Type	Atoms
1	p	216	SFE	CA-CB-CG-CD1
1	v	216	SFE	C-CA-CB-CG
1	V	216	SFE	C-CA-CB-CG
1	V	216	SFE	CA-CB-CG-CD2
1	V	216	SFE	CA-CB-CG-CD1
1	X	216	SFE	C-CA-CB-N
1	n	216	SFE	C-CA-CB-CG
1	r	216	SFE	O-C-CA-CB
1	r	216	SFE	C-CA-CB-CG
1	r	216	SFE	CA-CB-CG-CD2
1	r	216	SFE	CA-CB-CG-CD1
1	t	216	SFE	CA-CB-CG-CD2
1	t	216	SFE	CA-CB-CG-CD1
1	x	216	SFE	C-CA-CB-CG
1	b	216	SFE	C-CA-CB-CG
1	b	216	SFE	CA-CB-CG-CD2
1	b	216	SFE	CA-CB-CG-CD1
1	D	210	SFE	C-CA-CB-N
1	L	210	SFE	C-CA-CB-N
1	F	210	SFE	C-CA-CB-N
1	N	210	SFE	C-CA-CB-N
1	Y	210	SFE	C-CA-CB-N
1	o	210	SFE	C-CA-CB-N
1	c	210	SFE	C-CA-CB-N
1	s	210	SFE	C-CA-CB-N
1	Z	210	SFE	C-CA-CB-N
1	p	210	SFE	C-CA-CB-N
1	d	210	SFE	C-CA-CB-N
1	t	210	SFE	C-CA-CB-N
1	H	216	SFE	C-CA-CB-N
1	O	216	SFE	C-CA-CB-N
1	K	216	SFE	C-CA-CB-N
1	P	216	SFE	C-CA-CB-N
1	g	216	SFE	C-CA-CB-N
1	u	216	SFE	C-CA-CB-N
1	m	216	SFE	C-CA-CB-N
1	w	216	SFE	C-CA-CB-N
1	h	216	SFE	C-CA-CB-N
1	v	216	SFE	C-CA-CB-N
1	n	216	SFE	C-CA-CB-N
1	x	216	SFE	C-CA-CB-N
1	H	216	SFE	O-C-CA-CB

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Mol	Chain	Res	Type	Atoms
1	K	216	SFE	O-C-CA-CB
1	g	216	SFE	O-C-CA-CB
1	m	216	SFE	O-C-CA-CB
1	h	216	SFE	O-C-CA-CB
1	n	216	SFE	O-C-CA-CB
1	I	210	SFE	N-CB-CG-CD2
1	I	210	SFE	N-CB-CG-CD1
1	M	210	SFE	N-CB-CG-CD2
1	M	210	SFE	N-CB-CG-CD1
1	i	210	SFE	N-CB-CG-CD2
1	i	210	SFE	N-CB-CG-CD1
1	q	210	SFE	N-CB-CG-CD2
1	q	210	SFE	N-CB-CG-CD1
1	j	210	SFE	N-CB-CG-CD2
1	j	210	SFE	N-CB-CG-CD1
1	r	210	SFE	N-CB-CG-CD2
1	r	210	SFE	N-CB-CG-CD1
1	I	210	SFE	C-CA-CB-N
1	O	210	SFE	C-CA-CB-N
1	M	210	SFE	C-CA-CB-N
1	P	210	SFE	C-CA-CB-N
1	i	210	SFE	C-CA-CB-N
1	u	210	SFE	C-CA-CB-N
1	q	210	SFE	C-CA-CB-N
1	w	210	SFE	C-CA-CB-N
1	j	210	SFE	C-CA-CB-N
1	v	210	SFE	C-CA-CB-N
1	r	210	SFE	C-CA-CB-N
1	x	210	SFE	C-CA-CB-N
1	D	210	SFE	C-CA-CB-CG
1	I	210	SFE	C-CA-CB-CG
1	Q	210	SFE	C-CA-CB-CG
1	F	210	SFE	C-CA-CB-CG
1	M	210	SFE	C-CA-CB-CG
1	R	210	SFE	C-CA-CB-CG
1	Y	210	SFE	C-CA-CB-CG
1	i	210	SFE	C-CA-CB-CG
1	y	210	SFE	C-CA-CB-CG
1	c	210	SFE	C-CA-CB-CG
1	q	210	SFE	C-CA-CB-CG
1	0	210	SFE	C-CA-CB-CG
1	Z	210	SFE	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	j	210	SFE	C-CA-CB-CG
1	z	210	SFE	C-CA-CB-CG
1	d	210	SFE	C-CA-CB-CG
1	r	210	SFE	C-CA-CB-CG
1	l	210	SFE	C-CA-CB-CG
1	D	210	SFE	O-C-CA-CB
1	B	210	SFE	O-C-CA-CB
1	F	210	SFE	O-C-CA-CB
1	E	210	SFE	O-C-CA-CB
1	Y	210	SFE	O-C-CA-CB
1	U	210	SFE	O-C-CA-CB
1	c	210	SFE	O-C-CA-CB
1	a	210	SFE	O-C-CA-CB
1	Z	210	SFE	O-C-CA-CB
1	V	210	SFE	O-C-CA-CB
1	d	210	SFE	O-C-CA-CB
1	b	210	SFE	O-C-CA-CB
1	B	216	SFE	O-C-CA-CB
1	E	216	SFE	O-C-CA-CB
1	U	216	SFE	O-C-CA-CB
1	a	216	SFE	O-C-CA-CB
1	V	216	SFE	O-C-CA-CB
1	b	216	SFE	O-C-CA-CB
1	G	210	SFE	N-CB-CG-CD2
1	J	210	SFE	N-CB-CG-CD2
1	e	210	SFE	N-CB-CG-CD2
1	k	210	SFE	N-CB-CG-CD2
1	l	210	SFE	N-CB-CG-CD2
1	L	216	SFE	N-CB-CG-CD1
1	N	216	SFE	N-CB-CG-CD1
1	o	216	SFE	N-CB-CG-CD1
1	s	216	SFE	N-CB-CG-CD1
1	p	216	SFE	N-CB-CG-CD1
1	t	216	SFE	N-CB-CG-CD1
1	G	210	SFE	N-CB-CG-CD1
1	J	210	SFE	N-CB-CG-CD1
1	e	210	SFE	N-CB-CG-CD1
1	k	210	SFE	N-CB-CG-CD1
1	f	210	SFE	N-CB-CG-CD2
1	f	210	SFE	N-CB-CG-CD1
1	l	210	SFE	N-CB-CG-CD1
1	B	210	SFE	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	E	210	SFE	C-CA-CB-CG
1	U	210	SFE	C-CA-CB-CG
1	a	210	SFE	C-CA-CB-CG
1	V	210	SFE	C-CA-CB-CG
1	b	210	SFE	C-CA-CB-CG

There are no ring outliers.

108 monomers are involved in 748 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	0	210	SFE	3	0
1	O	216	SFE	10	0
1	q	216	SFE	30	0
1	Z	216	SFE	11	0
1	G	210	SFE	9	0
1	1	210	SFE	3	0
1	h	210	SFE	12	0
1	S	216	SFE	23	0
1	W	216	SFE	23	0
1	c	210	SFE	20	0
1	L	216	SFE	15	0
1	H	216	SFE	1	0
1	C	216	SFE	12	0
1	l	216	SFE	6	0
1	x	210	SFE	12	0
1	I	216	SFE	16	0
1	F	216	SFE	11	0
1	c	216	SFE	20	0
1	D	216	SFE	11	0
1	e	210	SFE	18	0
1	N	216	SFE	15	0
1	s	216	SFE	27	0
1	w	210	SFE	23	0
1	Q	216	SFE	7	0
1	L	210	SFE	6	0
1	a	210	SFE	13	0
1	P	216	SFE	10	0
1	b	210	SFE	6	0
1	r	210	SFE	13	0
1	Y	216	SFE	20	0
1	A	216	SFE	12	0
1	B	210	SFE	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	q	210	SFE	12	0
1	V	210	SFE	8	0
1	K	216	SFE	1	0
1	p	216	SFE	15	0
1	f	210	SFE	9	0
1	D	210	SFE	13	0
1	N	210	SFE	6	0
1	d	216	SFE	11	0
1	m	210	SFE	27	0
1	M	210	SFE	12	0
1	o	216	SFE	26	0
1	z	216	SFE	7	0
1	0	216	SFE	9	0
1	k	216	SFE	8	0
1	O	210	SFE	10	0
1	A	210	SFE	16	0
1	T	210	SFE	16	0
1	G	216	SFE	8	0
1	J	210	SFE	9	0
1	n	210	SFE	14	0
1	l	216	SFE	8	0
1	R	210	SFE	3	0
1	C	210	SFE	14	0
1	l	210	SFE	11	0
1	v	210	SFE	11	0
1	b	216	SFE	15	0
1	U	216	SFE	23	0
1	X	210	SFE	15	0
1	B	216	SFE	15	0
1	t	210	SFE	7	0
1	g	210	SFE	24	0
1	R	216	SFE	8	0
1	j	210	SFE	12	0
1	Z	210	SFE	13	0
1	s	210	SFE	6	0
1	i	216	SFE	30	0
1	P	210	SFE	11	0
1	y	216	SFE	8	0
1	S	210	SFE	26	0
1	r	216	SFE	16	0
1	V	216	SFE	15	0
1	e	216	SFE	8	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	Q	210	SFE	3	0
1	I	210	SFE	12	0
1	J	216	SFE	8	0
1	M	216	SFE	16	0
1	o	210	SFE	6	0
1	E	210	SFE	7	0
1	w	216	SFE	15	0
1	u	210	SFE	21	0
1	U	210	SFE	15	0
1	k	210	SFE	20	0
1	p	210	SFE	6	0
1	H	210	SFE	12	0
1	n	216	SFE	5	0
1	h	216	SFE	5	0
1	F	210	SFE	13	0
1	m	216	SFE	5	0
1	x	216	SFE	8	0
1	E	216	SFE	15	0
1	v	216	SFE	9	0
1	y	210	SFE	3	0
1	d	210	SFE	12	0
1	Y	210	SFE	21	0
1	T	216	SFE	12	0
1	u	216	SFE	15	0
1	z	210	SFE	3	0
1	f	216	SFE	6	0
1	t	216	SFE	16	0
1	g	216	SFE	5	0
1	j	216	SFE	16	0
1	K	210	SFE	14	0
1	X	216	SFE	12	0
1	a	216	SFE	23	0
1	i	210	SFE	12	0
1	W	210	SFE	24	0

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.