



Full wwPDB X-ray Structure Validation Report ⓘ

May 3, 2025 – 12:34 PM EDT

PDB ID : 3UK9 / pdb_00003uk9
Title : Galactose-specific lectin from Dolichos lablab
Authors : Shetty, K.N.; Latha, V.L.; Rao, R.N.; Nadimpalli, S.K.; Suguna, K.
Deposited on : 2011-11-09
Resolution : 3.11 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity : 4-5-2 with Phenix2.0rc1
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0rc1
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.006 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

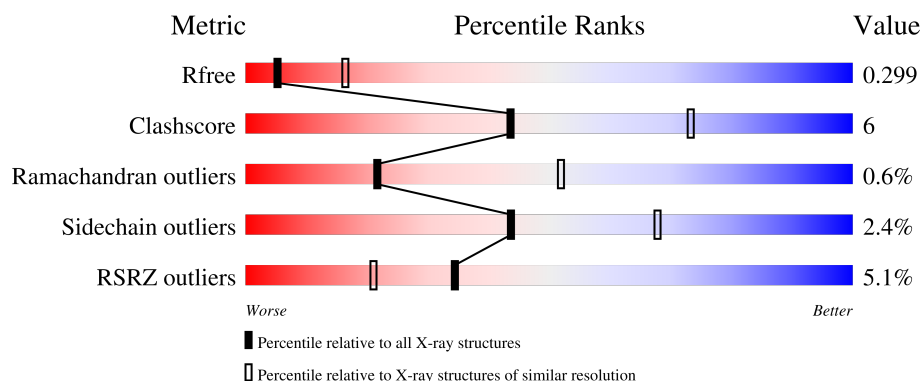
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.11 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	1668 (3.14-3.10)
Clashscore	180529	1788 (3.14-3.10)
Ramachandran outliers	177936	1696 (3.14-3.10)
Sidechain outliers	177891	1696 (3.14-3.10)
RSRZ outliers	164620	1668 (3.14-3.10)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	281	
1	B	281	
1	C	281	
1	D	281	
1	E	281	

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Mol	Chain	Length	Quality of chain
1	F	281	6% 78% 10% 12%
1	G	281	4% 73% 14% 12%
1	H	281	5% 79% 10% 11%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 15116 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Legume lectin.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	A	249	Total	C	N	O	0	0	0
			1879	1198	309	372			
1	B	249	Total	C	N	O	0	0	0
			1883	1201	308	374			
1	C	247	Total	C	N	O	0	0	0
			1864	1188	307	369			
1	D	248	Total	C	N	O	0	0	0
			1877	1198	309	370			
1	E	247	Total	C	N	O	0	0	0
			1869	1192	307	370			
1	F	247	Total	C	N	O	0	0	0
			1853	1181	304	368			
1	G	247	Total	C	N	O	0	0	0
			1865	1190	304	371			
1	H	250	Total	C	N	O	0	0	0
			1885	1200	312	373			

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	B	1	Total	C	O	0	0
			4	2	2		
2	C	1	Total	C	O	0	0
			4	2	2		
2	C	1	Total	C	O	0	0
			4	2	2		
2	D	1	Total	C	O	0	0
			4	2	2		
2	E	1	Total	C	O	0	0
			4	2	2		
2	F	1	Total	C	O	0	0
			4	2	2		
2	F	1	Total	C	O	0	0
			4	2	2		
2	G	1	Total	C	O	0	0
			4	2	2		
2	G	1	Total	C	O	0	0
			4	2	2		

- Molecule 3 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			7	4	3		
3	A	1	Total	C	O	0	0
			7	4	3		
3	B	1	Total	C	O	0	0
			7	4	3		
3	C	1	Total	C	O	0	0
			7	4	3		
3	D	1	Total	C	O	0	0
			7	4	3		
3	E	1	Total	C	O	0	0
			7	4	3		
3	G	1	Total	C	O	0	0
			7	4	3		

- Molecule 4 is TRIETHYLENE GLYCOL (CCD ID: PGE) (formula: C₆H₁₄O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			10	6	4		

- Molecule 5 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Ca	0	0
			1	1		
5	B	1	Total	Ca	0	0
			1	1		
5	C	1	Total	Ca	0	0
			1	1		
5	D	1	Total	Ca	0	0
			1	1		
5	E	1	Total	Ca	0	0
			1	1		
5	F	1	Total	Ca	0	0
			1	1		
5	G	1	Total	Ca	0	0
			1	1		
5	H	1	Total	Ca	0	0
			1	1		

- Molecule 6 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total Mn 1 1	0	0
6	B	1	Total Mn 1 1	0	0
6	C	1	Total Mn 1 1	0	0
6	D	1	Total Mn 1 1	0	0
6	E	1	Total Mn 1 1	0	0
6	F	1	Total Mn 1 1	0	0
6	G	1	Total Mn 1 1	0	0
6	H	1	Total Mn 1 1	0	0

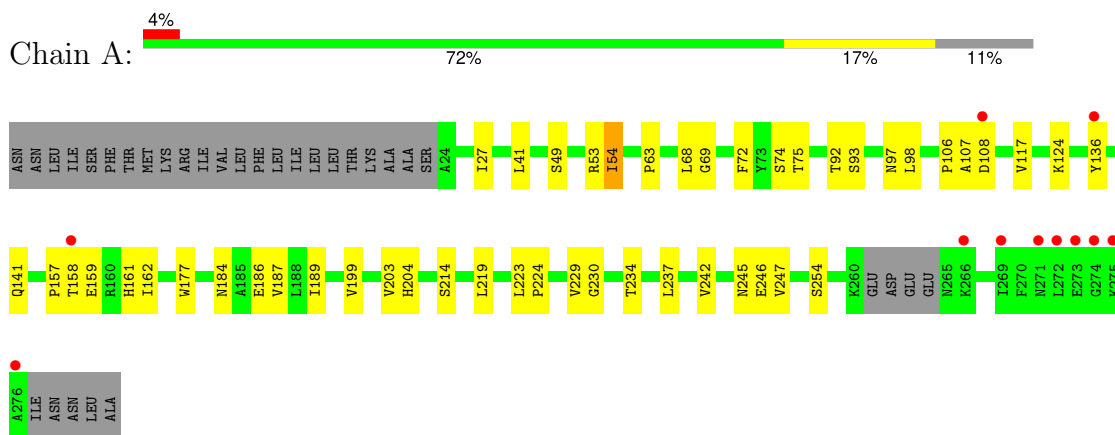
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	3	Total O 3 3	0	0
7	B	2	Total O 2 2	0	0
7	C	4	Total O 4 4	0	0
7	D	3	Total O 3 3	0	0
7	E	1	Total O 1 1	0	0
7	F	4	Total O 4 4	0	0
7	G	3	Total O 3 3	0	0
7	H	2	Total O 2 2	0	0

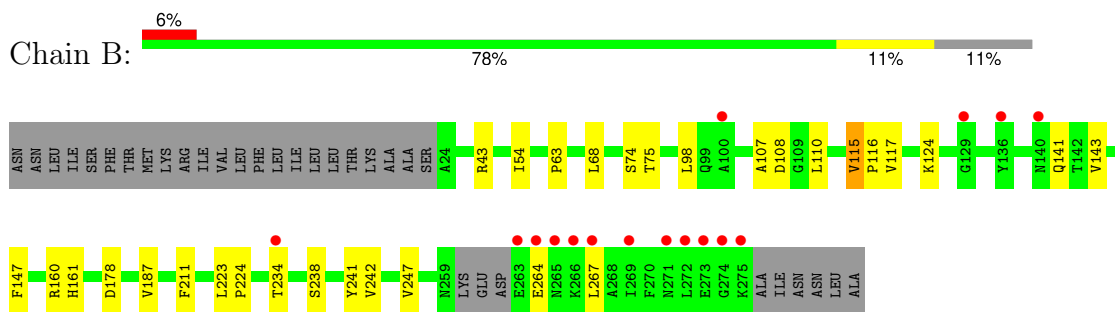
3 Residue-property plots [i](#)

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 and electron density. 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. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

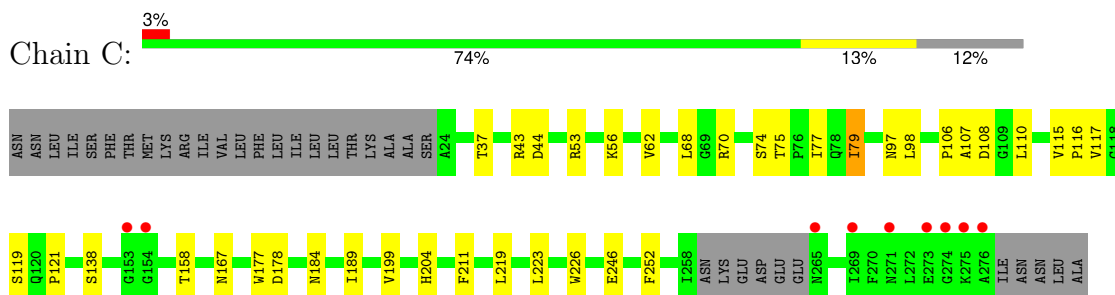
- Molecule 1: Legume lectin



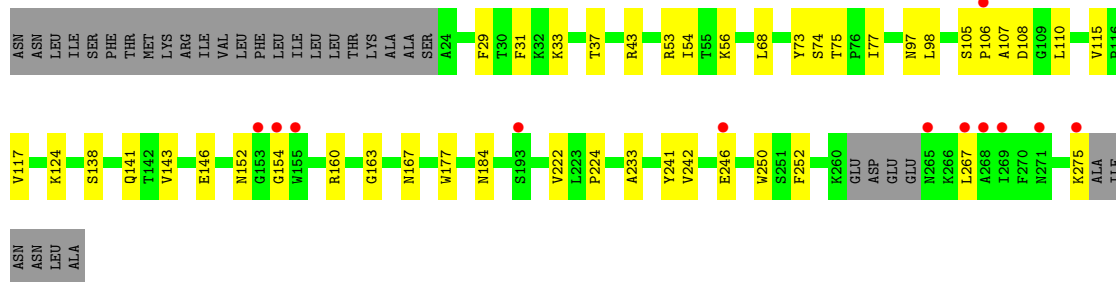
- Molecule 1: Legume lectin



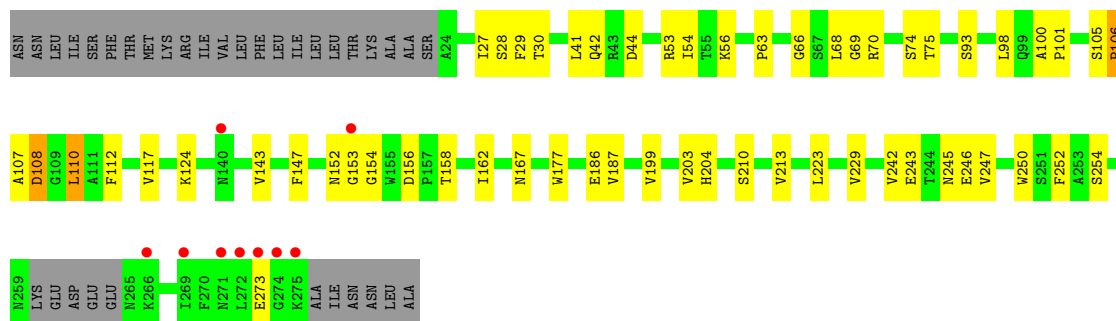
- Molecule 1: Legume lectin



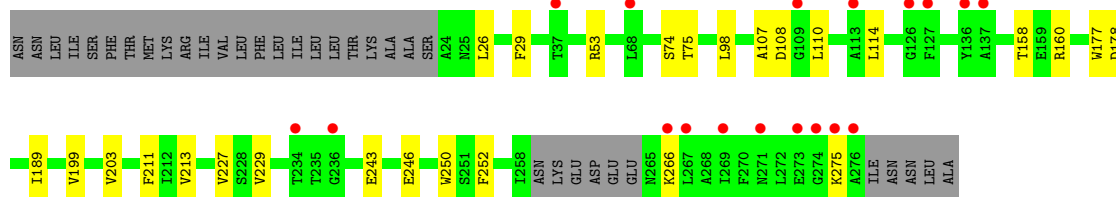
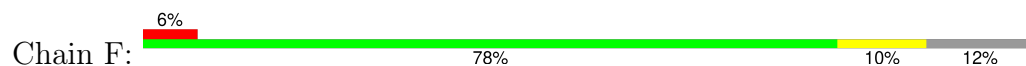
- Molecule 1: Legume lectin



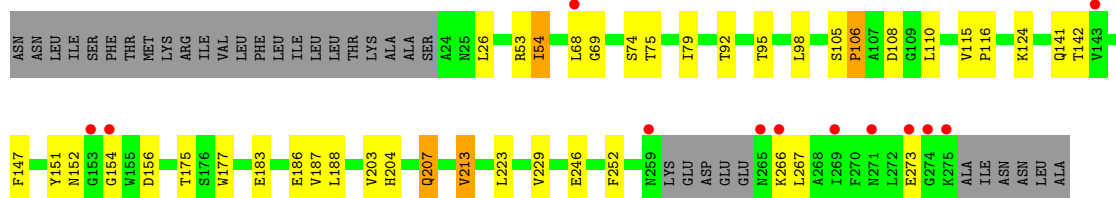
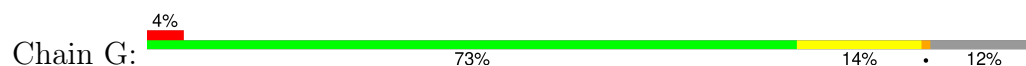
- Molecule 1: Legume lectin



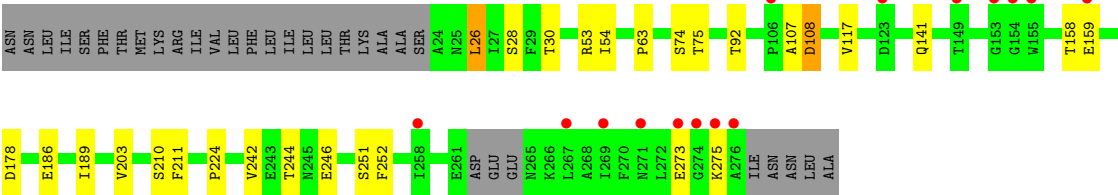
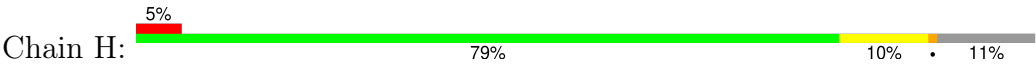
- Molecule 1: Legume lectin



- Molecule 1: Legume lectin



- Molecule 1: Legume lectin



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	73.99Å 84.13Å 93.16Å 89.92° 76.01° 77.00°	Depositor
Resolution (Å)	90.17 – 3.11 90.17 – 3.11	Depositor EDS
% Data completeness (in resolution range)	95.7 (90.17-3.11) 95.7 (90.17-3.11)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.11 (at 3.10Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.251 , 0.306 0.249 , 0.299	Depositor DCC
R_{free} test set	1820 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	50.3	Xtriage
Anisotropy	0.005	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.24 , 29.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	15116	wwPDB-VP
Average B, all atoms (Å ²)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.02% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PGE, EDO, CA, PEG, MN

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	A	0.47	0/1921	0.77	0/2618
1	B	0.44	0/1925	0.75	1/2624 (0.0%)
1	C	0.47	0/1906	0.81	3/2599 (0.1%)
1	D	0.46	0/1919	0.77	1/2615 (0.0%)
1	E	0.46	0/1911	0.77	0/2607
1	F	0.44	0/1895	0.77	1/2587 (0.0%)
1	G	0.46	0/1907	0.78	0/2601
1	H	0.44	0/1927	0.76	1/2627 (0.0%)
All	All	0.46	0/15311	0.77	7/20878 (0.0%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	117	VAL	N-CA-C	6.26	116.94	110.36
1	B	161	HIS	N-CA-C	5.75	117.53	108.96
1	F	158	THR	N-CA-C	5.65	117.13	110.97
1	H	158	THR	N-CA-C	5.23	116.98	111.28
1	D	242	VAL	N-CA-C	5.07	115.78	108.48
1	C	62	VAL	CA-C-N	5.07	125.00	119.78
1	C	62	VAL	C-N-CA	5.07	125.00	119.78

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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	A	1879	0	1809	31	0
1	B	1883	0	1810	21	0
1	C	1864	0	1793	25	0
1	D	1877	0	1813	29	0
1	E	1869	0	1802	35	0
1	F	1853	0	1766	15	0
1	G	1865	0	1787	31	0
1	H	1885	0	1811	20	0
2	A	8	0	12	0	0
2	B	4	0	6	0	0
2	C	8	0	12	1	0
2	D	4	0	6	0	0
2	E	4	0	6	1	0
2	F	8	0	12	0	0
2	G	8	0	12	0	0
3	A	14	0	20	0	0
3	B	7	0	10	0	0
3	C	7	0	10	0	0
3	D	7	0	10	1	0
3	E	7	0	10	0	0
3	G	7	0	10	0	0
4	A	10	0	14	2	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
5	E	1	0	0	0	0
5	F	1	0	0	0	0
5	G	1	0	0	0	0
5	H	1	0	0	0	0
6	A	1	0	0	0	0
6	B	1	0	0	0	0
6	C	1	0	0	0	0
6	D	1	0	0	0	0
6	E	1	0	0	0	0
6	F	1	0	0	0	0
6	G	1	0	0	0	0
6	H	1	0	0	0	0
7	A	3	0	0	0	0
7	B	2	0	0	0	0
7	C	4	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	D	3	0	0	0	0
7	E	1	0	0	0	0
7	F	4	0	0	0	0
7	G	3	0	0	0	0
7	H	2	0	0	0	0
All	All	15116	0	14541	177	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 6.

All (177) 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:C:75:THR:HG22	1:D:74:SER:HB2	1.26	1.16
1:G:75:THR:HG22	1:H:74:SER:HB3	1.13	1.12
1:G:74:SER:HB3	1:H:75:THR:HG22	1.42	1.01
1:G:75:THR:HG23	1:H:75:THR:HG23	1.46	0.96
1:E:75:THR:HG22	1:F:74:SER:HB3	1.49	0.94
1:E:74:SER:HB3	1:F:75:THR:HG22	1.51	0.92
1:C:74:SER:HB3	1:D:75:THR:HG22	1.49	0.92
1:C:75:THR:CG2	1:D:74:SER:HB2	1.99	0.91
1:C:75:THR:HG23	1:D:75:THR:HG23	1.59	0.85
1:A:74:SER:HB3	1:B:75:THR:HG22	1.59	0.84
1:B:68:LEU:HD12	1:B:124:LYS:HG2	1.61	0.82
1:E:75:THR:HG23	1:F:75:THR:HG23	1.61	0.81
1:G:75:THR:CG2	1:H:74:SER:HB3	2.06	0.78
1:G:75:THR:HG23	1:H:75:THR:CG2	2.18	0.72
1:E:63:PRO:HB2	1:E:242:VAL:HB	1.73	0.71
1:A:75:THR:CG2	1:B:74:SER:HB2	2.21	0.69
1:D:97:ASN:HD22	1:D:184:ASN:HD22	1.42	0.67
1:C:75:THR:HG22	1:D:74:SER:CB	2.15	0.67
1:A:141:GLN:HB3	1:A:224:PRO:HD3	1.78	0.65
1:C:53:ARG:HG2	1:C:246:GLU:HG2	1.79	0.65
1:E:273:GLU:HG2	1:F:26:LEU:HD13	1.78	0.65
1:E:54:ILE:HG22	1:E:69:GLY:HA3	1.79	0.64
1:G:53:ARG:HG2	1:G:246:GLU:HG2	1.78	0.64
1:A:75:THR:HG22	1:B:74:SER:HB2	1.82	0.62
1:C:44:ASP:HB3	1:C:56:LYS:HG3	1.82	0.62
1:D:98:LEU:HD21	1:D:110:LEU:HD22	1.82	0.61
1:E:68:LEU:HD12	1:E:124:LYS:HB3	1.82	0.60
1:H:63:PRO:HB2	1:H:242:VAL:HB	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:79:ILE:HD11	1:G:223:LEU:HB2	1.82	0.60
1:H:63:PRO:HG3	1:H:244:THR:HG23	1.83	0.60
1:A:177:TRP:HE1	1:A:204:HIS:HE1	1.48	0.60
1:A:54:ILE:HD11	1:A:247:VAL:HG23	1.83	0.59
1:A:237:LEU:HD13	4:A:305:PGE:H42	1.85	0.58
1:B:141:GLN:HB3	1:B:224:PRO:HD3	1.85	0.58
1:G:75:THR:CG2	1:H:75:THR:HG23	2.26	0.57
1:A:97:ASN:HD22	1:A:184:ASN:HD22	1.53	0.57
1:C:178:ASP:HB2	1:C:211:PHE:HZ	1.68	0.57
1:A:75:THR:HG23	1:B:74:SER:HB2	1.85	0.57
1:A:75:THR:HG23	1:B:75:THR:HG23	1.86	0.57
1:A:237:LEU:HD13	4:A:305:PGE:H52	1.87	0.56
1:G:177:TRP:HE1	1:G:204:HIS:CE1	2.24	0.56
1:E:30:THR:HG21	1:G:266:LYS:HG2	1.87	0.55
1:D:68:LEU:HD12	1:D:124:LYS:HB3	1.88	0.55
1:G:175:THR:HG22	1:G:213:VAL:HG22	1.89	0.55
1:A:54:ILE:O	1:A:69:GLY:HA3	2.08	0.55
1:D:152:ASN:C	1:D:154:GLY:H	2.14	0.54
1:B:54:ILE:HD11	1:B:247:VAL:HG23	1.88	0.54
1:E:66:GLY:HA3	2:E:301:EDO:O1	2.08	0.54
1:C:219:LEU:HD22	1:C:223:LEU:HD12	1.90	0.54
1:A:92:THR:HG22	1:A:189:ILE:HB	1.91	0.53
1:D:29:PHE:CZ	1:D:252:PHE:HB3	2.43	0.53
1:E:203:VAL:HG12	1:E:210:SER:HB3	1.89	0.53
1:A:63:PRO:HB2	1:A:242:VAL:HB	1.91	0.53
1:B:115:VAL:HG22	1:B:116:PRO:HD2	1.91	0.52
1:E:75:THR:CG2	1:F:74:SER:HB3	2.32	0.52
1:H:178:ASP:HB2	1:H:211:PHE:CZ	2.45	0.52
1:C:98:LEU:HD21	1:C:110:LEU:HD22	1.92	0.52
1:F:229:VAL:HG12	1:F:250:TRP:HZ2	1.75	0.52
1:G:95:THR:OG1	1:G:186:GLU:HG2	2.09	0.51
1:B:143:VAL:H	1:B:223:LEU:HD21	1.75	0.51
1:D:97:ASN:HD22	1:D:184:ASN:ND2	2.09	0.50
1:B:264:GLU:HB2	1:D:275:LYS:C	2.36	0.50
1:D:56:LYS:NZ	3:D:302:PEG:H41	2.27	0.50
1:E:229:VAL:HG12	1:E:250:TRP:HZ2	1.77	0.50
1:A:219:LEU:HD22	1:A:223:LEU:HD12	1.94	0.50
1:A:124:LYS:HA	1:A:234:THR:HG21	1.93	0.49
1:D:77:ILE:HD13	1:D:252:PHE:CE2	2.47	0.49
1:D:143:VAL:HG23	1:D:222:VAL:HG11	1.94	0.49
1:G:177:TRP:HE1	1:G:204:HIS:HE1	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:178:ASP:HB2	1:H:211:PHE:HZ	1.77	0.49
1:F:29:PHE:CZ	1:F:252:PHE:HB3	2.48	0.49
1:H:203:VAL:HG12	1:H:210:SER:HB3	1.94	0.49
1:E:177:TRP:HE1	1:E:204:HIS:HE1	1.61	0.48
1:F:107:ALA:O	1:F:243:GLU:HG2	2.14	0.48
1:A:68:LEU:HD12	1:A:124:LYS:HB3	1.96	0.48
1:E:29:PHE:CE2	1:E:252:PHE:HB3	2.49	0.48
1:D:141:GLN:HB3	1:D:224:PRO:HD3	1.95	0.47
1:C:138:SER:HA	1:C:167:ASN:CG	2.40	0.47
1:A:97:ASN:HD22	1:A:184:ASN:ND2	2.13	0.47
1:A:162:ILE:HG13	1:A:177:TRP:HB2	1.96	0.47
1:E:106:PRO:HB2	1:E:243:GLU:OE1	2.15	0.47
1:E:27:ILE:HG22	1:E:254:SER:HB3	1.97	0.47
1:B:178:ASP:HB2	1:B:211:PHE:HZ	1.80	0.47
1:E:53:ARG:CZ	1:E:246:GLU:OE2	2.64	0.46
1:H:92:THR:HG22	1:H:189:ILE:HB	1.97	0.46
1:A:158:THR:HG23	1:A:159:GLU:H	1.80	0.46
1:E:143:VAL:H	1:E:223:LEU:HD21	1.80	0.46
1:G:188:LEU:HD21	1:G:267:LEU:HD21	1.97	0.46
1:A:27:ILE:CG2	1:A:254:SER:HB3	2.46	0.46
1:G:151:TYR:HE1	1:G:156:ASP:O	1.98	0.46
1:D:107:ALA:HA	1:D:108:ASP:HA	1.71	0.46
1:C:189:ILE:HA	1:C:199:VAL:O	2.16	0.46
1:D:54:ILE:HG21	1:D:233:ALA:HB3	1.98	0.46
1:E:98:LEU:HD23	1:E:245:ASN:HA	1.98	0.46
1:A:75:THR:HG22	1:B:74:SER:CB	2.46	0.45
1:C:226:TRP:HB2	2:C:302:EDO:H11	1.99	0.45
1:C:177:TRP:HE1	1:C:204:HIS:HE1	1.64	0.45
1:E:107:ALA:HA	1:E:108:ASP:HA	1.80	0.45
1:E:152:ASN:H	1:E:156:ASP:HB2	1.80	0.45
1:E:42:GLN:OE1	1:E:70:ARG:HD3	2.16	0.45
1:F:98:LEU:HD21	1:F:110:LEU:HD22	1.98	0.45
1:A:107:ALA:HA	1:A:108:ASP:HA	1.70	0.45
1:B:107:ALA:HA	1:B:108:ASP:HA	1.66	0.45
1:B:147:PHE:HZ	1:B:187:VAL:HG11	1.80	0.45
1:A:98:LEU:HD23	1:A:245:ASN:HA	1.98	0.45
1:G:54:ILE:O	1:G:69:GLY:HA3	2.17	0.45
1:H:53:ARG:HG2	1:H:246:GLU:HG2	1.99	0.45
1:E:162:ILE:HG13	1:E:177:TRP:HB2	1.98	0.45
1:A:53:ARG:HG2	1:A:246:GLU:HG2	1.99	0.44
1:D:31:PHE:N	1:D:250:TRP:O	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:186:GLU:HB2	1:H:203:VAL:HG23	2.00	0.44
1:G:152:ASN:C	1:G:154:GLY:H	2.26	0.44
1:C:79:ILE:CD1	1:C:223:LEU:HB2	2.47	0.44
1:E:186:GLU:HB2	1:E:203:VAL:HG23	1.99	0.44
1:E:152:ASN:C	1:E:154:GLY:H	2.26	0.44
1:H:141:GLN:HB3	1:H:224:PRO:HD3	2.00	0.44
1:D:43:ARG:HG3	1:D:68:LEU:HD22	2.00	0.44
1:F:189:ILE:HA	1:F:199:VAL:O	2.18	0.44
1:G:75:THR:HG22	1:H:74:SER:CB	2.09	0.44
1:G:147:PHE:HZ	1:G:187:VAL:HG11	1.83	0.43
1:E:112:PHE:CE1	1:E:229:VAL:HG13	2.53	0.43
1:E:53:ARG:HG2	1:E:246:GLU:OE2	2.18	0.43
1:C:75:THR:HG21	1:D:73:TYR:CZ	2.53	0.43
1:G:92:THR:HB	1:G:252:PHE:HD1	1.84	0.43
1:B:43:ARG:HD2	1:B:68:LEU:HB3	2.01	0.43
1:F:107:ALA:HA	1:F:108:ASP:HA	1.67	0.43
1:F:178:ASP:HB2	1:F:211:PHE:HZ	1.84	0.43
1:B:63:PRO:HB2	1:B:242:VAL:HB	2.00	0.43
1:D:53:ARG:HG2	1:D:246:GLU:HG2	2.00	0.43
1:D:54:ILE:CG2	1:D:233:ALA:HB3	2.49	0.43
1:G:68:LEU:HD12	1:G:124:LYS:HA	2.01	0.43
1:A:93:SER:HA	1:A:187:VAL:O	2.18	0.43
1:G:147:PHE:CZ	1:G:187:VAL:HG11	2.54	0.43
1:C:70:ARG:NH1	1:C:121:PRO:HA	2.34	0.42
1:G:175:THR:CG2	1:G:213:VAL:HG22	2.49	0.42
1:D:33:LYS:HA	1:D:33:LYS:HD3	1.85	0.42
1:A:186:GLU:HB2	1:A:203:VAL:HG23	2.01	0.42
1:C:116:PRO:HB2	1:C:119:SER:HB2	2.01	0.42
1:E:105:SER:N	1:E:106:PRO:HD3	2.34	0.42
1:F:114:LEU:HD23	1:F:227:VAL:HG21	2.01	0.42
1:G:26:LEU:HB2	1:H:30:THR:HB	2.01	0.42
1:B:178:ASP:HB2	1:B:211:PHE:CZ	2.55	0.42
1:E:54:ILE:O	1:E:69:GLY:HA3	2.20	0.42
1:G:98:LEU:HD21	1:G:110:LEU:HD22	2.02	0.42
1:A:157:PRO:HD2	1:A:161:HIS:CE1	2.54	0.42
1:D:160:ARG:HB2	1:D:177:TRP:O	2.20	0.42
1:E:110:LEU:HD23	1:E:147:PHE:HB2	2.01	0.42
1:F:160:ARG:HB2	1:F:177:TRP:O	2.19	0.41
1:G:183:GLU:HG3	1:G:207:GLN:HE22	1.84	0.41
1:H:107:ALA:HA	1:H:108:ASP:HA	1.75	0.41
1:A:199:VAL:HG13	1:A:214:SER:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:97:ASN:HD22	1:C:184:ASN:HD22	1.68	0.41
1:A:92:THR:CG2	1:A:189:ILE:HB	2.49	0.41
1:C:107:ALA:HA	1:C:108:ASP:HA	1.73	0.41
1:D:146:GLU:HG2	1:D:163:GLY:O	2.20	0.41
1:E:199:VAL:HG21	1:G:203:VAL:HG11	2.03	0.41
1:C:75:THR:CG2	1:D:75:THR:HG23	2.41	0.41
1:E:27:ILE:CG2	1:E:254:SER:HB3	2.50	0.41
1:E:93:SER:HA	1:E:187:VAL:O	2.21	0.41
1:G:105:SER:N	1:G:106:PRO:HD3	2.35	0.41
1:D:105:SER:O	1:D:241:TYR:HA	2.20	0.41
1:C:178:ASP:HB2	1:C:211:PHE:CZ	2.53	0.41
1:A:72:PHE:HA	1:A:230:GLY:HA3	2.03	0.41
1:C:116:PRO:O	1:C:119:SER:HB3	2.21	0.41
1:B:238:SER:HB2	1:B:241:TYR:HD1	1.86	0.40
1:G:273:GLU:HG2	1:H:26:LEU:HD13	2.04	0.40
1:B:68:LEU:HA	1:B:234:THR:HG22	2.03	0.40
1:E:44:ASP:HB3	1:E:56:LYS:HG3	2.02	0.40
1:E:100:ALA:HA	1:E:101:PRO:HD3	1.96	0.40
1:G:116:PRO:HD3	1:G:141:GLN:O	2.21	0.40
1:H:28:SER:HA	1:H:252:PHE:O	2.21	0.40
1:B:98:LEU:HD21	1:B:110:LEU:HD22	2.03	0.40
1:G:115:VAL:HG12	1:G:142:THR:HG23	2.03	0.40
1:C:43:ARG:HG3	1:C:68:LEU:HD22	2.03	0.40
1:C:77:ILE:HD13	1:C:252:PHE:CE2	2.56	0.40
1:D:138:SER:HA	1:D:167:ASN:CG	2.47	0.40
1:F:53:ARG:HA	1:F:246:GLU:HG2	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	A	245/281 (87%)	227 (93%)	16 (6%)	2 (1%)	16	46
1	B	245/281 (87%)	230 (94%)	15 (6%)	0	100	100
1	C	243/281 (86%)	226 (93%)	16 (7%)	1 (0%)	30	61
1	D	244/281 (87%)	230 (94%)	13 (5%)	1 (0%)	30	61
1	E	243/281 (86%)	224 (92%)	15 (6%)	4 (2%)	8	29
1	F	243/281 (86%)	223 (92%)	19 (8%)	1 (0%)	30	61
1	G	243/281 (86%)	231 (95%)	11 (4%)	1 (0%)	30	61
1	H	246/281 (88%)	231 (94%)	14 (6%)	1 (0%)	30	61
All	All	1952/2248 (87%)	1822 (93%)	119 (6%)	11 (1%)	22	52

All (11) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	136	TYR
1	E	106	PRO
1	H	273	GLU
1	C	106	PRO
1	E	117	VAL
1	E	167	ASN
1	A	106	PRO
1	F	266	LYS
1	G	106	PRO
1	E	153	GLY
1	D	106	PRO

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 X-ray entries followed by that with respect to entries of similar resolution.

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	A	203/237 (86%)	198 (98%)	5 (2%)	42	67
1	B	203/237 (86%)	199 (98%)	4 (2%)	50	72
1	C	201/237 (85%)	197 (98%)	4 (2%)	50	72
1	D	203/237 (86%)	199 (98%)	4 (2%)	50	72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	203/237 (86%)	196 (97%)	7 (3%)	32	60
1	F	198/237 (84%)	195 (98%)	3 (2%)	60	78
1	G	202/237 (85%)	197 (98%)	5 (2%)	42	67
1	H	203/237 (86%)	196 (97%)	7 (3%)	32	60
All	All	1616/1896 (85%)	1577 (98%)	39 (2%)	44	68

All (39) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	41	LEU
1	A	49	SER
1	A	54	ILE
1	A	117	VAL
1	A	229	VAL
1	B	115	VAL
1	B	117	VAL
1	B	160	ARG
1	B	267	LEU
1	C	37	THR
1	C	79	ILE
1	C	115	VAL
1	C	158	THR
1	D	37	THR
1	D	115	VAL
1	D	117	VAL
1	D	267	LEU
1	E	28	SER
1	E	41	LEU
1	E	108	ASP
1	E	110	LEU
1	E	158	THR
1	E	213	VAL
1	E	247	VAL
1	F	203	VAL
1	F	213	VAL
1	F	275	LYS
1	G	54	ILE
1	G	108	ASP
1	G	207	GLN
1	G	213	VAL
1	G	229	VAL

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Mol	Chain	Res	Type
1	H	26	LEU
1	H	54	ILE
1	H	108	ASP
1	H	117	VAL
1	H	159	GLU
1	H	251	SER
1	H	275	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (37) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	141	GLN
1	A	184	ASN
1	A	196	ASN
1	A	204	HIS
1	A	245	ASN
1	A	271	ASN
1	B	141	GLN
1	B	184	ASN
1	B	207	GLN
1	C	102	ASN
1	C	184	ASN
1	C	245	ASN
1	D	25	ASN
1	D	82	ASN
1	D	102	ASN
1	D	184	ASN
1	E	102	ASN
1	E	184	ASN
1	E	204	HIS
1	F	82	ASN
1	F	99	GLN
1	F	245	ASN
1	G	82	ASN
1	G	99	GLN
1	G	120	GLN
1	G	152	ASN
1	G	204	HIS
1	G	207	GLN
1	H	42	GLN
1	H	102	ASN
1	H	120	GLN

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Mol	Chain	Res	Type
1	H	141	GLN
1	H	152	ASN
1	H	184	ASN
1	H	204	HIS
1	H	207	GLN
1	H	245	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 35 ligands modelled in this entry, 16 are monoatomic - leaving 19 for Mogul analysis.

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	$\# Z > 2$
3	PEG	A	304	-	6,6,6	0.47	0	5,5,5	0.27	0
2	EDO	A	302	-	3,3,3	0.45	0	2,2,2	0.39	0
4	PGE	A	305	-	9,9,9	0.50	0	8,8,8	0.18	0
3	PEG	B	302	-	6,6,6	0.49	0	5,5,5	0.31	0
2	EDO	G	302	-	3,3,3	0.43	0	2,2,2	0.38	0
3	PEG	D	302	-	6,6,6	0.47	0	5,5,5	0.27	0
2	EDO	C	302	-	3,3,3	0.45	0	2,2,2	0.32	0
2	EDO	C	301	-	3,3,3	0.41	0	2,2,2	0.44	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	EDO	F	302	-	3,3,3	0.44	0	2,2,2	0.39	0
2	EDO	F	301	-	3,3,3	0.46	0	2,2,2	0.37	0
3	PEG	E	302	-	6,6,6	0.47	0	5,5,5	0.25	0
2	EDO	B	301	-	3,3,3	0.45	0	2,2,2	0.35	0
3	PEG	C	303	-	6,6,6	0.47	0	5,5,5	0.27	0
2	EDO	G	301	-	3,3,3	0.45	0	2,2,2	0.31	0
2	EDO	A	301	-	3,3,3	0.40	0	2,2,2	0.45	0
3	PEG	A	303	-	6,6,6	0.49	0	5,5,5	0.41	0
2	EDO	D	301	-	3,3,3	0.43	0	2,2,2	0.34	0
3	PEG	G	303	-	6,6,6	0.54	0	5,5,5	0.23	0
2	EDO	E	301	-	3,3,3	0.43	0	2,2,2	0.49	0

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
3	PEG	A	304	-	-	3/4/4/4	-
2	EDO	A	302	-	-	1/1/1/1	-
4	PGE	A	305	-	-	5/7/7/7	-
3	PEG	B	302	-	-	4/4/4/4	-
2	EDO	G	302	-	-	0/1/1/1	-
3	PEG	D	302	-	-	3/4/4/4	-
2	EDO	C	302	-	-	0/1/1/1	-
2	EDO	C	301	-	-	1/1/1/1	-
2	EDO	F	302	-	-	1/1/1/1	-
2	EDO	F	301	-	-	1/1/1/1	-
3	PEG	E	302	-	-	2/4/4/4	-
2	EDO	B	301	-	-	1/1/1/1	-
3	PEG	C	303	-	-	3/4/4/4	-
2	EDO	G	301	-	-	0/1/1/1	-
2	EDO	A	301	-	-	1/1/1/1	-
3	PEG	A	303	-	-	2/4/4/4	-
2	EDO	D	301	-	-	1/1/1/1	-
3	PEG	G	303	-	-	2/4/4/4	-
2	EDO	E	301	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (31) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	304	PEG	O1-C1-C2-O2
3	B	302	PEG	O2-C3-C4-O4
2	F	302	EDO	O1-C1-C2-O2
3	E	302	PEG	O1-C1-C2-O2
4	A	305	PGE	O1-C1-C2-O2
2	A	301	EDO	O1-C1-C2-O2
2	C	301	EDO	O1-C1-C2-O2
3	A	303	PEG	O1-C1-C2-O2
3	D	302	PEG	O1-C1-C2-O2
3	C	303	PEG	O1-C1-C2-O2
4	A	305	PGE	C1-C2-O2-C3
3	D	302	PEG	C1-C2-O2-C3
3	E	302	PEG	C1-C2-O2-C3
3	G	303	PEG	C1-C2-O2-C3
3	B	302	PEG	C1-C2-O2-C3
3	A	304	PEG	C4-C3-O2-C2
4	A	305	PGE	C6-C5-O3-C4
3	B	302	PEG	C4-C3-O2-C2
2	B	301	EDO	O1-C1-C2-O2
3	A	304	PEG	C1-C2-O2-C3
3	D	302	PEG	C4-C3-O2-C2
3	C	303	PEG	C1-C2-O2-C3
3	B	302	PEG	O1-C1-C2-O2
4	A	305	PGE	C3-C4-O3-C5
3	A	303	PEG	O2-C3-C4-O4
2	A	302	EDO	O1-C1-C2-O2
2	D	301	EDO	O1-C1-C2-O2
4	A	305	PGE	O2-C3-C4-O3
3	C	303	PEG	C4-C3-O2-C2
2	F	301	EDO	O1-C1-C2-O2
3	G	303	PEG	O2-C3-C4-O4

There are no ring outliers.

4 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	305	PGE	2	0
3	D	302	PEG	1	0
2	C	302	EDO	1	0
2	E	301	EDO	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2			OWAB(Å ²)	Q < 0.9
1	A	249/281 (88%)	0.18	11 (4%)	39	24	24, 41, 65, 75	13 (5%)
1	B	249/281 (88%)	0.29	16 (6%)	27	16	25, 49, 81, 103	14 (5%)
1	C	247/281 (87%)	0.12	9 (3%)	46	29	20, 37, 59, 69	12 (4%)
1	D	248/281 (88%)	0.16	12 (4%)	36	22	22, 41, 66, 81	11 (4%)
1	E	247/281 (87%)	0.15	9 (3%)	46	29	20, 39, 67, 78	11 (4%)
1	F	247/281 (87%)	0.58	18 (7%)	22	13	29, 68, 122, 159	13 (5%)
1	G	247/281 (87%)	0.22	12 (4%)	36	22	18, 42, 64, 81	11 (4%)
1	H	250/281 (88%)	0.49	15 (6%)	29	18	26, 58, 88, 102	12 (4%)
All	All	1984/2248 (88%)	0.27	102 (5%)	34	21	18, 45, 86, 159	97 (4%)

All (102) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	G	273	GLU	8.7
1	H	153	GLY	8.4
1	G	275	LYS	7.2
1	A	271	ASN	6.4
1	D	265	ASN	6.0
1	C	269	ILE	5.9
1	D	275	LYS	5.6
1	H	275	LYS	5.6
1	H	154	GLY	5.6
1	A	276	ALA	5.6
1	H	271	ASN	5.0
1	B	275	LYS	5.0
1	E	275	LYS	4.9
1	B	269	ILE	4.8
1	H	276	ALA	4.8
1	B	273	GLU	4.7

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Mol	Chain	Res	Type	RSRZ
1	E	269	ILE	4.6
1	A	275	LYS	4.6
1	D	269	ILE	4.4
1	F	275	LYS	4.4
1	D	271	ASN	4.3
1	D	153	GLY	4.2
1	C	273	GLU	4.1
1	G	274	GLY	4.0
1	F	276	ALA	3.9
1	C	275	LYS	3.8
1	C	153	GLY	3.7
1	E	271	ASN	3.7
1	A	269	ILE	3.5
1	D	155	TRP	3.5
1	B	271	ASN	3.4
1	B	264	GLU	3.4
1	D	154	GLY	3.4
1	C	276	ALA	3.4
1	G	269	ILE	3.3
1	G	153	GLY	3.3
1	H	273	GLU	3.2
1	C	274	GLY	3.2
1	E	274	GLY	3.2
1	B	274	GLY	3.2
1	B	263	GLU	3.1
1	E	273	GLU	3.0
1	A	274	GLY	3.0
1	F	234	THR	3.0
1	F	267	LEU	3.0
1	F	269	ILE	3.0
1	B	267	LEU	3.0
1	F	266	LYS	2.9
1	C	154	GLY	2.9
1	F	236	GLY	2.9
1	D	106	PRO	2.9
1	A	266	LYS	2.9
1	H	155	TRP	2.8
1	B	100	ALA	2.8
1	B	265	ASN	2.8
1	F	37	THR	2.8
1	F	274	GLY	2.8
1	B	140	ASN	2.7

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Mol	Chain	Res	Type	RSRZ
1	C	265	ASN	2.7
1	A	136	TYR	2.7
1	B	272	LEU	2.6
1	G	265	ASN	2.6
1	D	193	SER	2.6
1	A	272	LEU	2.5
1	G	143	VAL	2.5
1	B	266	LYS	2.5
1	E	266	LYS	2.5
1	G	271	ASN	2.5
1	E	153	GLY	2.5
1	F	109	GLY	2.5
1	G	68	LEU	2.5
1	H	267	LEU	2.4
1	F	273	GLU	2.4
1	F	113	ALA	2.4
1	F	68	LEU	2.4
1	F	271	ASN	2.4
1	G	266	LYS	2.3
1	H	269	ILE	2.3
1	H	159	GLU	2.3
1	H	123	ASP	2.3
1	B	129	GLY	2.3
1	H	274	GLY	2.3
1	D	267	LEU	2.3
1	H	106	PRO	2.3
1	F	136	TYR	2.3
1	A	273	GLU	2.2
1	E	140	ASN	2.2
1	H	149	THR	2.2
1	B	136	TYR	2.2
1	F	127	PHE	2.2
1	D	268	ALA	2.1
1	A	108	ASP	2.1
1	G	154	GLY	2.1
1	F	137	ALA	2.1
1	A	158	THR	2.1
1	G	259	ASN	2.1
1	F	126	GLY	2.0
1	B	234	THR	2.0
1	C	271	ASN	2.0
1	H	258	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
1	E	272	LEU	2.0
1	D	246	GLU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	PEG	B	302	7/7	0.50	0.29	53,53,53,53	7
3	PEG	C	303	7/7	0.53	0.36	54,55,55,55	7
3	PEG	D	302	7/7	0.61	0.21	42,43,43,43	7
3	PEG	A	303	7/7	0.63	0.22	50,50,50,50	7
2	EDO	F	301	4/4	0.65	0.23	38,38,38,38	4
3	PEG	G	303	7/7	0.66	0.14	46,47,47,48	0
4	PGE	A	305	10/10	0.67	0.13	40,41,41,41	10
3	PEG	E	302	7/7	0.69	0.17	49,49,50,50	0
3	PEG	A	304	7/7	0.70	0.14	49,49,49,50	7
2	EDO	B	301	4/4	0.71	0.24	35,35,36,36	4
2	EDO	G	301	4/4	0.71	0.31	50,50,50,50	4
2	EDO	A	302	4/4	0.73	0.24	39,39,39,39	4
2	EDO	E	301	4/4	0.74	0.11	31,32,32,32	0
2	EDO	D	301	4/4	0.75	0.20	37,38,38,38	4
2	EDO	F	302	4/4	0.77	0.19	41,41,41,41	4
2	EDO	A	301	4/4	0.85	0.10	21,21,22,23	4
2	EDO	C	301	4/4	0.87	0.09	46,46,46,47	0
5	CA	B	303	1/1	0.90	0.07	48,48,48,48	0
2	EDO	C	302	4/4	0.91	0.10	39,40,40,40	0
2	EDO	G	302	4/4	0.92	0.13	41,42,42,42	0
5	CA	D	303	1/1	0.92	0.07	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	CA	E	303	1/1	0.93	0.08	47,47,47,47	0
6	MN	F	304	1/1	0.93	0.07	73,73,73,73	0
6	MN	H	302	1/1	0.93	0.06	64,64,64,64	0
5	CA	A	306	1/1	0.94	0.05	45,45,45,45	0
5	CA	C	304	1/1	0.94	0.05	34,34,34,34	0
6	MN	E	304	1/1	0.96	0.08	56,56,56,56	0
5	CA	F	303	1/1	0.96	0.05	86,86,86,86	0
6	MN	D	304	1/1	0.96	0.03	48,48,48,48	0
5	CA	G	304	1/1	0.98	0.04	30,30,30,30	0
5	CA	H	301	1/1	0.98	0.04	30,30,30,30	0
6	MN	A	307	1/1	0.98	0.08	49,49,49,49	0
6	MN	B	304	1/1	0.98	0.03	40,40,40,40	0
6	MN	G	305	1/1	0.99	0.06	32,32,32,32	0
6	MN	C	305	1/1	0.99	0.08	35,35,35,35	0

6.5 Other polymers [i](#)

There are no such residues in this entry.