



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 26, 2024 – 12:29 PM EDT

PDB ID : 2SIC  
Title : REFINED CRYSTAL STRUCTURE OF THE COMPLEX OF SUBTILISIN BPN' AND STREPTOMYCES SUBTILISIN INHIBITOR AT 1.8 ANGSTROMS RESOLUTION  
Authors : Mitsui, Y.; Takeuchi, Y.; Hirono, S.; Akagawa, H.; Nakamura, K.T.  
Deposited on : 1991-04-01  
Resolution : 1.80 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](mailto: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>.

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

MolProbity : 4.02b-467  
Xtrriage (Phenix) : **NOT EXECUTED**  
EDS : **NOT EXECUTED**  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

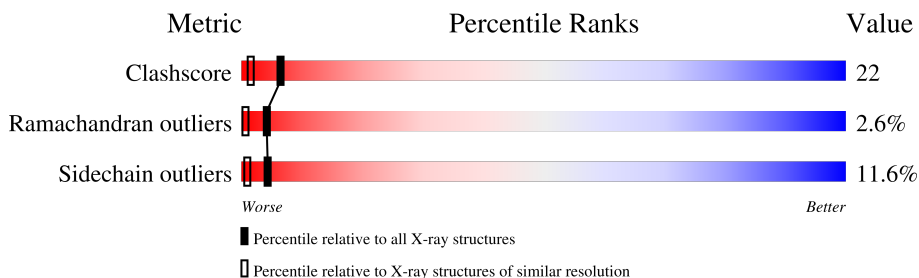
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.80 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))
Clashscore	180529	8162 (1.80-1.80)
Ramachandran outliers	177936	8077 (1.80-1.80)
Sidechain outliers	177891	8076 (1.80-1.80)

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  $\geq 3$ , 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  $\leq 5\%$ .

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	E	275	 78% 19%
2	I	107	 36% 47% 14%

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2962 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 SUBTILISIN BPN'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	E	275	1938	1204	335	394	5	0	0	0

- Molecule 2 is a protein called STREPTOMYCES SUBTILISIN INHIBITOR (SSI).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	I	107	764	476	130	151	7	0	0	0

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	E	2	Total	Ca	0	0
			2	2		

- Molecule 4 is water.

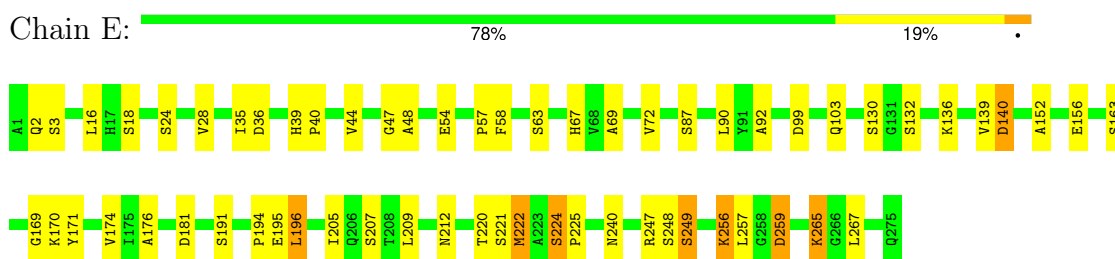
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	E	154	Total	O	0	0
			154	154		
4	I	104	Total	O	0	0
			104	104		

### 3 Residue-property plots [i](#)

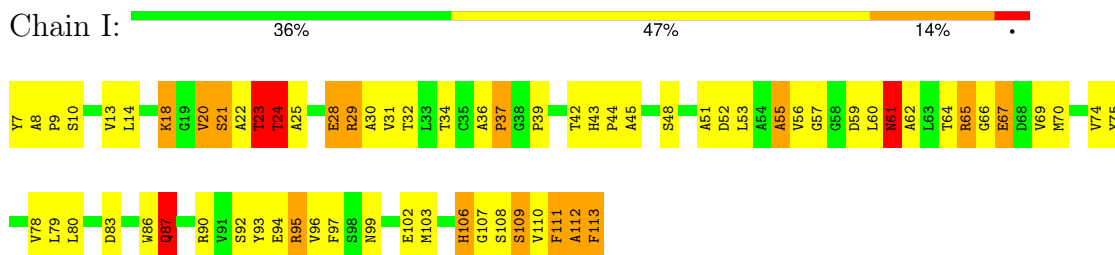
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded 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.

Note EDS was not executed.

- Molecule 1: SUBTILISIN BPN<sup>7</sup>



- Molecule 2: STREPTOMYCES SUBTILISIN INHIBITOR (SSI)



## 4 Data and refinement statistics

Xtrriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	77.23Å 185.90Å 69.51Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	6.00 – 1.80	Depositor
% Data completeness (in resolution range)	(Not available) (6.00-1.80)	Depositor
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
Refinement program	PROLSQ	Depositor
R, $R_{free}$	0.177 , (Not available)	Depositor
Estimated twinning fraction	No twinning to report.	Xtrriage
Total number of atoms	2962	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	22.0	wwPDB-VP

## 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:  
CA

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	E	0.88	0/1976	1.50	20/2697 (0.7%)
2	I	0.85	0/780	1.74	16/1065 (1.5%)
All	All	0.87	0/2756	1.57	36/3762 (1.0%)

There are no bond length outliers.

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	23	THR	C-N-CA	21.82	176.25	121.70
1	E	140	ASP	CB-CG-OD1	10.57	127.81	118.30
1	E	99	ASP	CB-CG-OD1	9.98	127.29	118.30
1	E	99	ASP	CB-CG-OD2	-9.96	109.34	118.30
1	E	140	ASP	CB-CG-OD2	-9.23	109.99	118.30
1	E	181	ASP	CB-CG-OD1	9.13	126.52	118.30
1	E	196	LEU	CA-CB-CG	8.91	135.79	115.30
1	E	36	ASP	CB-CG-OD2	-7.66	111.40	118.30
1	E	181	ASP	CB-CG-OD2	-7.00	112.00	118.30
1	E	54	GLU	OE1-CD-OE2	6.83	131.49	123.30
2	I	23	THR	O-C-N	-6.47	112.34	122.70
2	I	112	ALA	CA-C-N	-6.20	103.56	117.20
2	I	112	ALA	N-CA-CB	6.20	118.78	110.10
2	I	24	THR	N-CA-CB	6.13	121.94	110.30
1	E	259	ASP	CB-CG-OD2	-6.02	112.88	118.30
1	E	249	SER	CA-CB-OG	-5.99	95.02	111.20
2	I	112	ALA	CA-C-O	5.97	132.63	120.10
1	E	259	ASP	CB-CG-OD1	5.89	123.60	118.30
2	I	95	ARG	CD-NE-CZ	-5.69	115.64	123.60
2	I	106	HIS	CA-CB-CG	-5.68	103.94	113.60
2	I	83	ASP	CB-CG-OD1	5.68	123.41	118.30
1	E	156	GLU	CG-CD-OE2	5.58	129.46	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	36	ASP	CB-CG-OD1	5.56	123.30	118.30
2	I	87	GLN	CA-CB-CG	5.54	125.59	113.40
1	E	224	SER	CB-CA-C	5.49	120.54	110.10
1	E	247	ARG	CD-NE-CZ	5.45	131.23	123.60
1	E	3	SER	CB-CA-C	5.43	120.42	110.10
1	E	2	GLN	O-C-N	5.43	131.38	122.70
2	I	112	ALA	N-CA-C	-5.32	96.64	111.00
1	E	54	GLU	CG-CD-OE2	-5.25	107.81	118.30
2	I	28	GLU	CA-CB-CG	5.24	124.92	113.40
2	I	103	MET	CA-CB-CG	-5.23	104.41	113.30
2	I	87	GLN	CB-CG-CD	5.15	124.98	111.60
2	I	112	ALA	C-N-CA	5.13	134.53	121.70
2	I	23	THR	CA-C-O	5.07	130.75	120.10
1	E	247	ARG	NE-CZ-NH1	5.06	122.83	120.30

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	E	1938	0	1899	32	0
2	I	764	0	738	82	2
3	E	2	0	0	0	0
4	E	154	0	0	7	0
4	I	104	0	0	22	5
All	All	2962	0	2637	114	7

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 22.

All (114) 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:E:152:ALA:HB3	4:E:578:HOH:O	1.30	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:13:VAL:HG12	2:I:32:THR:HG22	1.38	1.01
2:I:60:LEU:HD11	4:I:644:HOH:O	1.62	0.97
2:I:66:GLY:O	2:I:67:GLU:HB2	1.61	0.96
2:I:109:SER:HA	2:I:112:ALA:HB2	1.45	0.95
1:E:44:VAL:HG13	4:E:694:HOH:O	1.65	0.93
2:I:43:HIS:C	2:I:45:ALA:H	1.77	0.88
2:I:18:LYS:HG3	4:I:599:HOH:O	1.75	0.86
2:I:61:ASN:ND2	2:I:93:TYR:CE1	2.46	0.83
2:I:23:THR:HA	2:I:25:ALA:H	1.42	0.83
2:I:31:VAL:HB	2:I:42:THR:O	1.80	0.80
2:I:61:ASN:ND2	2:I:93:TYR:HE1	1.79	0.79
2:I:8:ALA:HB3	2:I:36:ALA:CB	2.14	0.78
1:E:44:VAL:HG22	4:E:694:HOH:O	1.85	0.77
2:I:22:ALA:HA	2:I:79:LEU:HD21	1.66	0.76
2:I:29:ARG:HH11	2:I:29:ARG:HG2	1.47	0.76
2:I:56:VAL:CG1	2:I:62:ALA:HB3	2.15	0.76
2:I:8:ALA:HB3	2:I:36:ALA:HB2	1.67	0.76
2:I:109:SER:HA	2:I:112:ALA:CB	2.18	0.74
2:I:22:ALA:HA	2:I:79:LEU:CD2	2.18	0.72
2:I:7:TYR:CG	2:I:7:TYR:O	2.42	0.72
2:I:52:ASP:OD2	2:I:109:SER:OG	2.06	0.72
2:I:43:HIS:C	2:I:45:ALA:N	2.45	0.70
2:I:23:THR:O	4:I:764:HOH:O	2.10	0.70
2:I:86:TRP:NE1	4:I:641:HOH:O	2.09	0.69
1:E:136:LYS:HE3	1:E:140:ASP:OD2	1.93	0.69
2:I:28:GLU:HB3	4:I:775:HOH:O	1.93	0.68
2:I:20:VAL:HA	2:I:96:VAL:HG11	1.75	0.68
2:I:86:TRP:CD1	4:I:640:HOH:O	2.47	0.66
2:I:56:VAL:HG11	2:I:62:ALA:HB3	1.79	0.64
2:I:60:LEU:O	2:I:61:ASN:HB2	1.98	0.63
2:I:113:PHE:HA	4:I:665:HOH:O	1.98	0.62
1:E:257:LEU:HD11	1:E:267:LEU:HB2	1.80	0.62
2:I:52:ASP:O	2:I:55:ALA:HB3	2.01	0.61
2:I:61:ASN:HD21	2:I:93:TYR:HE1	1.39	0.61
2:I:86:TRP:CZ3	2:I:87:GLN:HB2	2.37	0.60
2:I:43:HIS:O	2:I:45:ALA:N	2.34	0.60
2:I:43:HIS:CB	4:I:671:HOH:O	2.50	0.59
2:I:109:SER:O	2:I:112:ALA:HB3	2.01	0.59
1:E:191:SER:O	4:E:720:HOH:O	2.17	0.59
2:I:48:SER:O	2:I:51:ALA:HB3	2.02	0.59
2:I:79:LEU:HD11	2:I:94:GLU:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:152:ALA:CB	4:E:578:HOH:O	2.09	0.58
2:I:18:LYS:HE3	4:I:782:HOH:O	2.03	0.58
1:E:136:LYS:HG3	1:E:171:TYR:CD1	2.40	0.57
1:E:152:ALA:HB1	1:E:220:THR:HB	1.87	0.56
2:I:53:LEU:HD21	4:I:644:HOH:O	2.05	0.56
2:I:60:LEU:O	2:I:61:ASN:CB	2.53	0.56
2:I:7:TYR:O	2:I:7:TYR:CD1	2.59	0.56
1:E:163:SER:HB2	1:E:194:PRO:HD2	1.88	0.55
2:I:61:ASN:N	2:I:61:ASN:HD22	2.05	0.55
2:I:80:LEU:HD21	2:I:111:PHE:CE1	2.41	0.54
1:E:48:ALA:HA	1:E:57:PRO:HG3	1.89	0.54
2:I:43:HIS:CG	4:I:671:HOH:O	2.60	0.54
2:I:92:SER:HB3	4:I:611:HOH:O	2.06	0.53
2:I:43:HIS:HB2	4:I:671:HOH:O	2.07	0.53
2:I:113:PHE:CA	4:I:665:HOH:O	2.57	0.52
2:I:53:LEU:O	2:I:57:GLY:N	2.44	0.51
1:E:152:ALA:HB2	1:E:220:THR:O	2.10	0.51
2:I:99:ASN:HB2	4:I:783:HOH:O	2.11	0.51
2:I:86:TRP:CE3	2:I:87:GLN:HB2	2.45	0.51
1:E:152:ALA:HB1	1:E:220:THR:CB	2.41	0.50
2:I:37:PRO:CD	4:I:572:HOH:O	2.59	0.49
2:I:37:PRO:HD2	4:I:572:HOH:O	2.11	0.49
2:I:7:TYR:CE2	2:I:9:PRO:HG3	2.47	0.49
1:E:136:LYS:HG3	1:E:171:TYR:CE1	2.48	0.49
2:I:56:VAL:CG1	2:I:62:ALA:CB	2.89	0.49
2:I:60:LEU:HD21	4:I:644:HOH:O	2.13	0.49
2:I:60:LEU:CD1	4:I:644:HOH:O	2.37	0.48
1:E:139:VAL:HG11	1:E:174:VAL:CG2	2.44	0.48
2:I:60:LEU:C	2:I:61:ASN:HD22	2.17	0.48
2:I:113:PHE:CB	4:I:665:HOH:O	2.62	0.48
2:I:43:HIS:CE1	2:I:110:VAL:O	2.67	0.47
2:I:75:TYR:O	4:I:559:HOH:O	2.20	0.47
2:I:95:ARG:HD3	2:I:97:PHE:CZ	2.50	0.47
1:E:67:HIS:CE1	1:E:207:SER:HB3	2.48	0.47
1:E:35:ILE:O	1:E:58:PHE:HA	2.14	0.47
1:E:44:VAL:CG2	4:E:694:HOH:O	2.54	0.47
2:I:21:SER:C	2:I:79:LEU:HD22	2.35	0.47
2:I:7:TYR:O	2:I:9:PRO:HD3	2.15	0.47
2:I:14:LEU:O	2:I:30:ALA:HA	2.14	0.47
1:E:152:ALA:CB	1:E:220:THR:O	2.63	0.46
2:I:29:ARG:HH11	2:I:29:ARG:CG	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:69:ALA:HB1	1:E:90:LEU:HD21	1.98	0.46
1:E:224:SER:N	1:E:225:PRO:HD2	2.31	0.46
2:I:79:LEU:HD11	2:I:94:GLU:CG	2.45	0.46
1:E:169:GLY:O	1:E:176:ALA:HB2	2.16	0.45
1:E:44:VAL:CG1	4:E:694:HOH:O	2.39	0.45
1:E:139:VAL:HG11	1:E:174:VAL:HG23	1.97	0.45
1:E:47:GLY:HA3	1:E:92:ALA:O	2.16	0.45
2:I:56:VAL:HG11	2:I:62:ALA:O	2.16	0.45
2:I:97:PHE:CE2	2:I:106:HIS:CD2	3.05	0.45
2:I:97:PHE:HE2	2:I:106:HIS:CD2	2.35	0.45
2:I:64:THR:O	2:I:65:ARG:O	2.35	0.44
1:E:256:LYS:HD2	1:E:265:LYS:O	2.18	0.44
2:I:36:ALA:HA	2:I:37:PRO:C	2.38	0.44
2:I:65:ARG:CG	2:I:66:GLY:H	2.31	0.44
1:E:28:VAL:HG11	1:E:72:VAL:HG11	2.00	0.44
2:I:80:LEU:O	2:I:94:GLU:HA	2.18	0.43
2:I:95:ARG:HH11	2:I:95:ARG:HD2	1.52	0.43
1:E:44:VAL:HG11	1:E:58:PHE:CE1	2.54	0.43
2:I:21:SER:O	2:I:25:ALA:HB3	2.18	0.42
2:I:65:ARG:HG2	2:I:66:GLY:N	2.34	0.42
2:I:34:THR:O	2:I:39:PRO:HA	2.19	0.42
2:I:109:SER:O	2:I:112:ALA:CB	2.65	0.42
2:I:8:ALA:HB3	2:I:36:ALA:HB1	1.97	0.42
2:I:59:ASP:OD1	2:I:60:LEU:O	2.37	0.42
1:E:40:PRO:HG2	1:E:212:ASN:OD1	2.20	0.42
1:E:170:LYS:HE3	1:E:195:GLU:OE2	2.20	0.41
1:E:205:ILE:HG13	1:E:222:MET:HB3	2.02	0.41
2:I:56:VAL:HG12	2:I:59:ASP:HB3	2.01	0.41
2:I:65:ARG:HG2	2:I:66:GLY:H	1.86	0.40
1:E:39:HIS:CD2	1:E:209:LEU:O	2.73	0.40
2:I:20:VAL:HG13	4:I:633:HOH:O	2.21	0.40

All (7) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:576:HOH:O	4:I:576:HOH:O[4_556]	1.66	0.54
4:I:566:HOH:O	4:I:566:HOH:O[4_556]	1.89	0.31
4:I:630:HOH:O	4:I:630:HOH:O[3_655]	1.96	0.24
2:I:23:THR:OG1	2:I:90:ARG:CD[2_655]	2.16	0.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:569:HOH:O	4:I:571:HOH:O[2_655]	2.16	0.04
2:I:23:THR:OG1	2:I:90:ARG:NE[2_655]	2.18	0.02
4:I:607:HOH:O	4:I:607:HOH:O[2_655]	2.18	0.02

## 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	E	273/275 (99%)	260 (95%)	12 (4%)	1 (0%)	30	19
2	I	105/107 (98%)	85 (81%)	11 (10%)	9 (9%)	0	0
All	All	378/382 (99%)	345 (91%)	23 (6%)	10 (3%)	4	1

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	I	24	THR
2	I	55	ALA
2	I	65	ARG
2	I	44	PRO
2	I	61	ASN
2	I	108	SER
2	I	67	GLU
2	I	107	GLY
1	E	63	SER
2	I	37	PRO

### 5.3.2 Protein sidechains [i](#)

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	E	205/205 (100%)	189 (92%)	16 (8%)	10	3
2	I	80/80 (100%)	63 (79%)	17 (21%)	1	0
All	All	285/285 (100%)	252 (88%)	33 (12%)	4	1

All (33) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	16	LEU
1	E	18	SER
1	E	24	SER
1	E	87	SER
1	E	103	GLN
1	E	130	SER
1	E	132	SER
1	E	196	LEU
1	E	221	SER
1	E	222	MET
1	E	240	ASN
1	E	248	SER
1	E	249	SER
1	E	256	LYS
1	E	259	ASP
1	E	265	LYS
2	I	10	SER
2	I	18	LYS
2	I	20	VAL
2	I	21	SER
2	I	23	THR
2	I	24	THR
2	I	29	ARG
2	I	61	ASN
2	I	69	VAL
2	I	70	MET
2	I	74	VAL
2	I	78	VAL
2	I	87	GLN
2	I	102	GLU
2	I	109	SER
2	I	111	PHE
2	I	113	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	E	59	GLN
1	E	206	GLN
1	E	271	GLN
2	I	61	ASN
2	I	106	HIS

### 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 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

### 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data [i](#)

### 6.1 Protein, DNA and RNA chains [i](#)

EDS was not executed - this section is therefore empty.

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

EDS was not executed - this section is therefore empty.

### 6.3 Carbohydrates [i](#)

EDS was not executed - this section is therefore empty.

### 6.4 Ligands [i](#)

EDS was not executed - this section is therefore empty.

### 6.5 Other polymers [i](#)

EDS was not executed - this section is therefore empty.