



Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 04:02 am BST

PDB ID : 3WHI
Title : Crystal structure of unautoprocessed form of IS1-inserted Pro-subtilisin E
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Deposited on : 2013-08-26
Resolution : 2.40 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtrriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

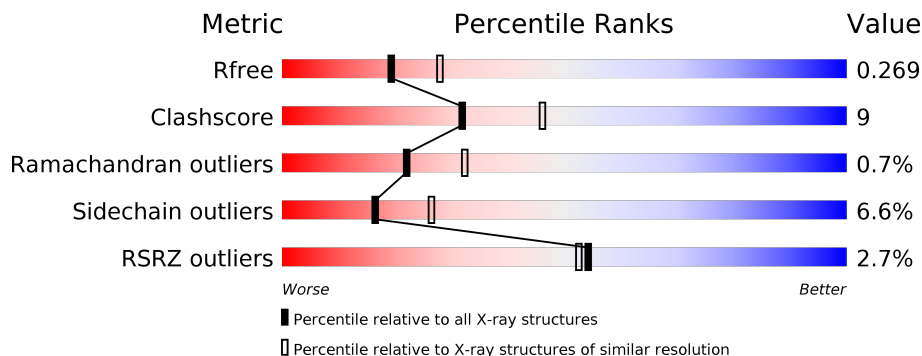
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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}	130704	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

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 on 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	365	<p>2% (red), 76% (green), 18% (yellow), ... (orange, red, grey)</p>
1	B	365	<p>4% (red), 79% (green), 17% (yellow), ... (orange, red, grey)</p>

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 5325 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 E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	355	2581	1614	441	520	6	0	0	0
1	B	355	2575	1608	441	521	5	0	0	0

There are 30 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	78	GLY	-	EXPRESSION TAG	UNP P04189
A	79	LYS	-	EXPRESSION TAG	UNP P04189
A	80	PRO	-	EXPRESSION TAG	UNP P04189
A	81	SER	-	EXPRESSION TAG	UNP P04189
A	82	TRP	-	EXPRESSION TAG	UNP P04189
A	83	LEU	-	EXPRESSION TAG	UNP P04189
A	84	GLY	-	EXPRESSION TAG	UNP P04189
A	85	GLY	-	EXPRESSION TAG	UNP P04189
A	86	GLY	-	EXPRESSION TAG	UNP P04189
A	87	SER	-	EXPRESSION TAG	UNP P04189
A	88	THR	-	EXPRESSION TAG	UNP P04189
A	89	GLN	-	EXPRESSION TAG	UNP P04189
A	90	PRO	-	EXPRESSION TAG	UNP P04189
A	175	SER	ALA	SEE REMARK 999	UNP P04189
A	311	ALA	SER	ENGINEERED MUTATION	UNP P04189
B	78	GLY	-	EXPRESSION TAG	UNP P04189
B	79	LYS	-	EXPRESSION TAG	UNP P04189
B	80	PRO	-	EXPRESSION TAG	UNP P04189
B	81	SER	-	EXPRESSION TAG	UNP P04189
B	82	TRP	-	EXPRESSION TAG	UNP P04189
B	83	LEU	-	EXPRESSION TAG	UNP P04189
B	84	GLY	-	EXPRESSION TAG	UNP P04189
B	85	GLY	-	EXPRESSION TAG	UNP P04189
B	86	GLY	-	EXPRESSION TAG	UNP P04189
B	87	SER	-	EXPRESSION TAG	UNP P04189

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Chain	Residue	Modelled	Actual	Comment	Reference
B	88	THR	-	EXPRESSION TAG	UNP P04189
B	89	GLN	-	EXPRESSION TAG	UNP P04189
B	90	PRO	-	EXPRESSION TAG	UNP P04189
B	175	SER	ALA	SEE REMARK 999	UNP P04189
B	311	ALA	SER	ENGINEERED MUTATION	UNP P04189

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	1	Total Ca 1 1	0	0
2	A	1	Total Ca 1 1	0	0

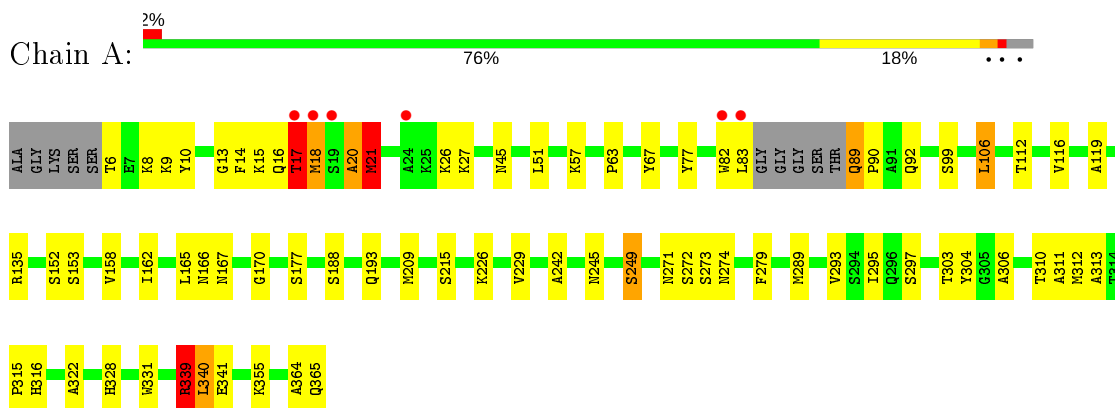
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	79	Total O 79 79	0	0
3	B	88	Total O 88 88	0	0

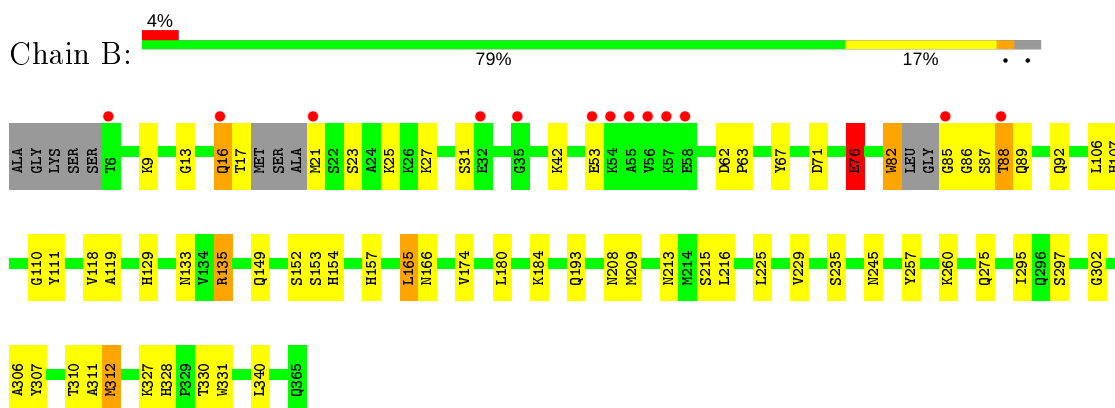
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Subtilisin E



- Molecule 1: Subtilisin E



4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α , β , γ	135.20Å 135.20Å 151.61Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	46.40 – 2.40 46.40 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.9 (46.40-2.40) 99.9 (46.40-2.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.35 (at 2.39Å)	Xtrriage
Refinement program	REFMAC 5.5.0110	Depositor
R, R_{free}	0.198 , 0.270 0.200 , 0.269	Depositor DCC
R_{free} test set	1652 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	35.6	Xtrriage
Anisotropy	0.041	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 34.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5325	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.35% 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: 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	A	0.96	1/2632 (0.0%)	0.92	6/3577 (0.2%)
1	B	0.93	2/2625 (0.1%)	0.84	2/3566 (0.1%)
All	All	0.94	3/5257 (0.1%)	0.88	8/7143 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	76	GLU	CD-OE2	5.36	1.31	1.25
1	B	118	VAL	CB-CG1	5.12	1.63	1.52
1	A	365	GLN	CG-CD	5.01	1.62	1.51

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	21	MET	N-CA-CB	-8.53	95.24	110.60
1	A	135	ARG	NE-CZ-NH2	-5.81	117.39	120.30
1	A	20	ALA	CB-CA-C	-5.61	101.69	110.10
1	B	165	LEU	CA-CB-CG	5.54	128.03	115.30
1	B	86	GLY	N-CA-C	-5.34	99.74	113.10
1	A	339	ARG	NE-CZ-NH2	-5.15	117.73	120.30
1	A	289	MET	CG-SD-CE	5.14	108.43	100.20
1	A	106	LEU	CA-CB-CG	-5.09	103.59	115.30

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	A	2581	0	2543	52	0
1	B	2575	0	2530	41	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	79	0	0	2	0
3	B	88	0	0	2	0
All	All	5325	0	5073	91	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 9.

All (91) 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:A:17:THR:CG2	1:A:18:MET:HG3	1.37	1.54
1:A:17:THR:HG23	1:A:18:MET:CG	1.57	1.33
1:A:18:MET:O	1:A:21:MET:HB2	1.34	1.24
1:B:135:ARG:HD2	3:B:507:HOH:O	1.42	1.16
1:B:88:THR:HB	1:B:89:GLN:HA	1.31	1.07
1:A:15:LYS:HE2	1:A:63:PRO:O	1.60	0.99
1:A:17:THR:HG22	1:A:18:MET:HG3	1.53	0.90
1:B:245:ASN:HD21	1:B:310:THR:H	1.26	0.83
1:A:17:THR:CG2	1:A:18:MET:CG	2.32	0.81
1:A:17:THR:HG23	1:A:18:MET:CB	2.09	0.80
1:A:17:THR:HG23	1:A:18:MET:HG3	0.83	0.80
1:A:245:ASN:HD21	1:A:310:THR:H	1.36	0.73
1:A:158:VAL:HG13	1:A:315:PRO:HG3	1.73	0.70
1:B:9:LYS:HG2	1:B:193:GLN:NE2	2.07	0.70
1:A:92:GLN:HE22	1:A:166:ASN:HD22	1.39	0.69
1:B:208:ASN:ND2	3:B:551:HOH:O	2.27	0.68
1:A:119:ALA:HB2	1:A:209:MET:HG3	1.77	0.66
1:A:16:GLN:O	1:A:17:THR:O	2.16	0.63
1:A:20:ALA:O	1:A:21:MET:SD	2.57	0.63
1:A:18:MET:O	1:A:21:MET:CB	2.28	0.63
1:A:89:GLN:HB2	1:A:90:PRO:HD3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:SER:O	1:A:153:SER:HB2	2.00	0.60
1:A:13:GLY:HA3	1:A:67:TYR:CZ	2.37	0.60
1:A:16:GLN:O	1:A:17:THR:C	2.37	0.59
1:A:295:ILE:O	1:A:306:ALA:HA	2.02	0.59
1:B:88:THR:HB	1:B:89:GLN:CA	2.21	0.59
1:A:328:HIS:HE1	1:A:364:ALA:O	1.86	0.58
1:A:26:LYS:NZ	1:A:45:ASN:HD22	2.02	0.58
1:A:92:GLN:NE2	1:A:166:ASN:HD22	2.02	0.58
1:A:331:TRP:CZ3	1:A:339:ARG:HG3	2.40	0.56
1:B:119:ALA:HB2	1:B:209:MET:HG3	1.88	0.56
1:A:162:ILE:HG13	1:A:315:PRO:HB3	1.88	0.55
1:B:107:HIS:HE1	1:B:174:VAL:O	1.89	0.55
1:B:92:GLN:HE22	1:B:166:ASN:HD22	1.55	0.55
1:A:341:GLU:HB3	1:A:355:LYS:HD2	1.90	0.54
1:A:271:ASN:HB3	1:A:293:VAL:HG21	1.88	0.54
1:B:215:SER:HB3	1:B:311:ALA:HB1	1.90	0.54
1:B:76:GLU:HB2	1:B:154:HIS:CD2	2.43	0.53
1:B:149:GLN:O	1:B:184:LYS:NZ	2.35	0.53
1:B:157:HIS:CD2	1:B:297:SER:HB3	2.43	0.53
1:A:170:GLY:HA3	1:A:304:TYR:CZ	2.44	0.53
1:A:116:VAL:HG11	1:A:322:ALA:HA	1.91	0.52
1:B:129:HIS:NE2	1:B:302:GLY:HA2	2.25	0.52
1:B:88:THR:CB	1:B:89:GLN:HA	2.14	0.52
1:B:295:ILE:O	1:B:306:ALA:HA	2.10	0.52
1:B:76:GLU:HB2	1:B:154:HIS:NE2	2.25	0.52
1:B:225:LEU:O	1:B:229:VAL:HG13	2.11	0.51
1:A:26:LYS:NZ	1:A:45:ASN:ND2	2.58	0.51
1:B:129:HIS:CE1	1:B:302:GLY:HA2	2.45	0.51
1:A:272:SER:N	3:A:514:HOH:O	2.21	0.51
1:A:215:SER:HB3	1:A:311:ALA:HB1	1.92	0.51
1:B:216:LEU:HD12	1:B:216:LEU:C	2.32	0.50
1:A:167:ASN:HB2	3:A:573:HOH:O	2.10	0.50
1:B:312:MET:N	1:B:312:MET:SD	2.84	0.49
1:B:152:SER:O	1:B:153:SER:HB2	2.11	0.49
1:B:92:GLN:HE22	1:B:166:ASN:ND2	2.11	0.48
1:A:273:SER:O	1:A:274:ASN:HB2	2.11	0.48
1:A:17:THR:HG23	1:A:18:MET:CA	2.43	0.48
1:A:245:ASN:ND2	1:A:310:THR:H	2.09	0.48
1:B:111:TYR:CE2	1:B:327:LYS:HD2	2.49	0.47
1:A:215:SER:HB3	1:A:311:ALA:CB	2.44	0.47
1:B:62:ASP:OD1	1:B:63:PRO:HD2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:GLU:HB3	1:B:154:HIS:CE1	2.50	0.47
1:B:157:HIS:CE1	1:B:307:TYR:HB2	2.50	0.47
1:A:10:TYR:CD2	1:A:51:LEU:HB2	2.50	0.46
1:B:16:GLN:O	1:B:17:THR:HB	2.15	0.46
1:A:226:LYS:HD3	1:B:330:THR:HB	1.98	0.46
1:B:76:GLU:CB	1:B:154:HIS:CE1	3.00	0.45
1:A:245:ASN:HA	1:A:279:PHE:O	2.17	0.44
1:A:313:ALA:O	1:A:316:HIS:HB2	2.18	0.44
1:B:21:MET:HA	1:B:25:LYS:HD3	2.00	0.44
1:B:13:GLY:HA3	1:B:67:TYR:CZ	2.52	0.44
1:A:14:PHE:HB3	1:A:20:ALA:HB3	2.00	0.43
1:A:112:THR:HG1	1:A:177:SER:HG	1.59	0.43
1:A:15:LYS:CE	1:A:63:PRO:O	2.50	0.43
1:B:328:HIS:HB3	1:B:331:TRP:CD1	2.54	0.42
1:A:340:LEU:HD12	1:A:340:LEU:HA	1.78	0.42
1:B:82:TRP:HE1	1:B:85:GLY:N	2.18	0.42
1:A:170:GLY:HA3	1:A:304:TYR:CE2	2.55	0.42
1:B:9:LYS:HB3	1:B:71:ASP:HB3	2.00	0.42
1:A:26:LYS:HE3	1:A:45:ASN:ND2	2.35	0.41
1:A:17:THR:HG21	1:B:110:GLY:O	2.20	0.41
1:A:9:LYS:HD3	1:A:193:GLN:NE2	2.36	0.41
1:B:9:LYS:HE2	1:B:193:GLN:HE22	1.85	0.41
1:A:77:TYR:HD2	1:A:242:ALA:HB3	1.85	0.41
1:B:129:HIS:CD2	1:B:302:GLY:HA2	2.56	0.41
1:B:111:TYR:CD2	1:B:327:LYS:HD2	2.56	0.41
1:B:76:GLU:HG3	1:B:76:GLU:H	1.65	0.41
1:A:8:LYS:HB2	1:A:10:TYR:CE2	2.56	0.40
1:B:257:TYR:CZ	1:B:260:LYS:HD2	2.57	0.40
1:A:297:SER:O	1:A:304:TYR:HA	2.22	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	351/365 (96%)	326 (93%)	22 (6%)	3 (1%)	17	25
1	B	349/365 (96%)	332 (95%)	15 (4%)	2 (1%)	25	36
All	All	700/730 (96%)	658 (94%)	37 (5%)	5 (1%)	22	32

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	17	THR
1	B	16	GLN
1	B	88	THR
1	A	188	SER
1	A	249	SER

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	A	274/279 (98%)	256 (93%)	18 (7%)	16	26
1	B	273/279 (98%)	255 (93%)	18 (7%)	16	26
All	All	547/558 (98%)	511 (93%)	36 (7%)	16	26

All (36) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	THR
1	A	17	THR
1	A	18	MET
1	A	21	MET
1	A	27	LYS
1	A	57	LYS
1	A	82	TRP
1	A	83	LEU
1	A	89	GLN
1	A	99	SER
1	A	106	LEU

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Mol	Chain	Res	Type
1	A	165	LEU
1	A	229	VAL
1	A	249	SER
1	A	303	THR
1	A	312	MET
1	A	339	ARG
1	A	340	LEU
1	B	23	SER
1	B	27	LYS
1	B	31	SER
1	B	42	LYS
1	B	53	GLU
1	B	76	GLU
1	B	82	TRP
1	B	87	SER
1	B	106	LEU
1	B	133	ASN
1	B	135	ARG
1	B	165	LEU
1	B	180	LEU
1	B	213	ASN
1	B	235	SER
1	B	275	GLN
1	B	312	MET
1	B	340	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	45	ASN
1	A	89	GLN
1	A	107	HIS
1	A	166	ASN
1	A	199	ASN
1	A	245	ASN
1	A	328	HIS
1	A	361	GLN
1	B	45	ASN
1	B	107	HIS
1	B	166	ASN
1	B	193	GLN
1	B	199	ASN

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Mol	Chain	Res	Type
1	B	245	ASN
1	B	328	HIS
1	B	361	GLN

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 carbohydrates 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 [i](#)

There are no chain breaks in this entry.

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

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

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	355/365 (97%)	-0.41	6 (1%) 70 68	18, 33, 61, 79	0
1	B	355/365 (97%)	-0.40	13 (3%) 41 41	21, 31, 76, 85	0
All	All	710/730 (97%)	-0.40	19 (2%) 54 52	18, 32, 70, 85	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	18	MET	4.6
1	B	32	GLU	4.0
1	A	24	ALA	3.5
1	B	57	LYS	3.1
1	A	19	SER	3.1
1	B	85	GLY	3.0
1	B	53	GLU	2.9
1	B	88	THR	2.8
1	A	82	TRP	2.8
1	A	17	THR	2.7
1	B	35	GLY	2.6
1	B	21	MET	2.5
1	B	16	GLN	2.3
1	B	55	ALA	2.2
1	A	83	LEU	2.2
1	B	6	THR	2.2
1	B	58	GLU	2.1
1	B	56	VAL	2.0
1	B	54	LYS	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 carbohydrates 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(Å ²)	Q<0.9
2	CA	A	401	1/1	0.99	0.07	29,29,29,29	0
2	CA	B	401	1/1	0.99	0.10	29,29,29,29	0

6.5 Other polymers [i](#)

There are no such residues in this entry.