



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 26, 2023 – 02:35 AM EDT

PDB ID : 6BT9
Title : Chitinase ChiA74 from *Bacillus thuringiensis*
Authors : Juarez-Hernandez, E.; Brieba, L.G.; Torres-Larios, A.; Jimenez-Sandoval, P.;
Barboza-Corona, J.
Deposited on : 2017-12-05
Resolution : 2.26 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 : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.35.1
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) : 2.35.1

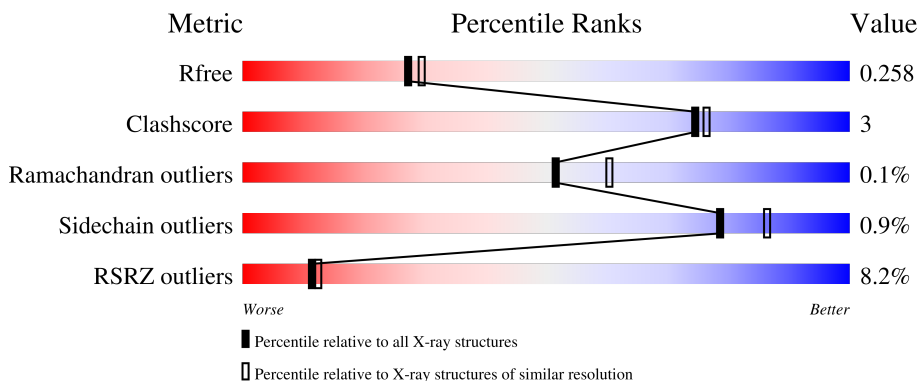
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


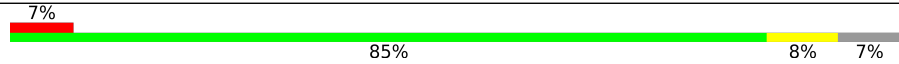
The reported resolution of this entry is 2.26 Å.

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	1377 (2.26-2.26)
Clashscore	141614	1487 (2.26-2.26)
Ramachandran outliers	138981	1449 (2.26-2.26)
Sidechain outliers	138945	1450 (2.26-2.26)
RSRZ outliers	127900	1356 (2.26-2.26)

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	672	
1	B	672	

2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 9450 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 Chitinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	625	4670	2966	778	914	12	0	1	0
1	B	626	4700	2980	785	923	12	0	3	0

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	5	MET	-	initiating methionine	UNP A0A243G6Q6
A	6	ASN	-	expression tag	UNP A0A243G6Q6
A	7	HIS	-	expression tag	UNP A0A243G6Q6
A	8	LYS	-	expression tag	UNP A0A243G6Q6
A	9	VAL	-	expression tag	UNP A0A243G6Q6
A	10	HIS	-	expression tag	UNP A0A243G6Q6
A	11	HIS	-	expression tag	UNP A0A243G6Q6
A	12	HIS	-	expression tag	UNP A0A243G6Q6
A	13	HIS	-	expression tag	UNP A0A243G6Q6
A	14	HIS	-	expression tag	UNP A0A243G6Q6
A	15	HIS	-	expression tag	UNP A0A243G6Q6
A	16	ILE	-	expression tag	UNP A0A243G6Q6
A	17	GLU	-	expression tag	UNP A0A243G6Q6
A	18	GLY	-	expression tag	UNP A0A243G6Q6
A	19	ARG	-	expression tag	UNP A0A243G6Q6
A	20	HIS	-	expression tag	UNP A0A243G6Q6
A	21	MET	-	expression tag	UNP A0A243G6Q6
A	22	GLU	-	expression tag	UNP A0A243G6Q6
A	23	LEU	-	expression tag	UNP A0A243G6Q6
A	24	GLY	-	expression tag	UNP A0A243G6Q6
A	25	THR	-	expression tag	UNP A0A243G6Q6
A	26	LEU	-	expression tag	UNP A0A243G6Q6
A	27	GLU	-	expression tag	UNP A0A243G6Q6
A	28	GLY	-	expression tag	UNP A0A243G6Q6
A	29	SER	-	expression tag	UNP A0A243G6Q6

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
A	30	GLU	-	expression tag	UNP A0A243G6Q6
A	31	PHE	-	expression tag	UNP A0A243G6Q6
A	32	LYS	-	expression tag	UNP A0A243G6Q6
A	33	LEU	-	expression tag	UNP A0A243G6Q6
A	34	MET	-	expression tag	UNP A0A243G6Q6
B	5	MET	-	initiating methionine	UNP A0A243G6Q6
B	6	ASN	-	expression tag	UNP A0A243G6Q6
B	7	HIS	-	expression tag	UNP A0A243G6Q6
B	8	LYS	-	expression tag	UNP A0A243G6Q6
B	9	VAL	-	expression tag	UNP A0A243G6Q6
B	10	HIS	-	expression tag	UNP A0A243G6Q6
B	11	HIS	-	expression tag	UNP A0A243G6Q6
B	12	HIS	-	expression tag	UNP A0A243G6Q6
B	13	HIS	-	expression tag	UNP A0A243G6Q6
B	14	HIS	-	expression tag	UNP A0A243G6Q6
B	15	HIS	-	expression tag	UNP A0A243G6Q6
B	16	ILE	-	expression tag	UNP A0A243G6Q6
B	17	GLU	-	expression tag	UNP A0A243G6Q6
B	18	GLY	-	expression tag	UNP A0A243G6Q6
B	19	ARG	-	expression tag	UNP A0A243G6Q6
B	20	HIS	-	expression tag	UNP A0A243G6Q6
B	21	MET	-	expression tag	UNP A0A243G6Q6
B	22	GLU	-	expression tag	UNP A0A243G6Q6
B	23	LEU	-	expression tag	UNP A0A243G6Q6
B	24	GLY	-	expression tag	UNP A0A243G6Q6
B	25	THR	-	expression tag	UNP A0A243G6Q6
B	26	LEU	-	expression tag	UNP A0A243G6Q6
B	27	GLU	-	expression tag	UNP A0A243G6Q6
B	28	GLY	-	expression tag	UNP A0A243G6Q6
B	29	SER	-	expression tag	UNP A0A243G6Q6
B	30	GLU	-	expression tag	UNP A0A243G6Q6
B	31	PHE	-	expression tag	UNP A0A243G6Q6
B	32	LYS	-	expression tag	UNP A0A243G6Q6
B	33	LEU	-	expression tag	UNP A0A243G6Q6
B	34	MET	-	expression tag	UNP A0A243G6Q6

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

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

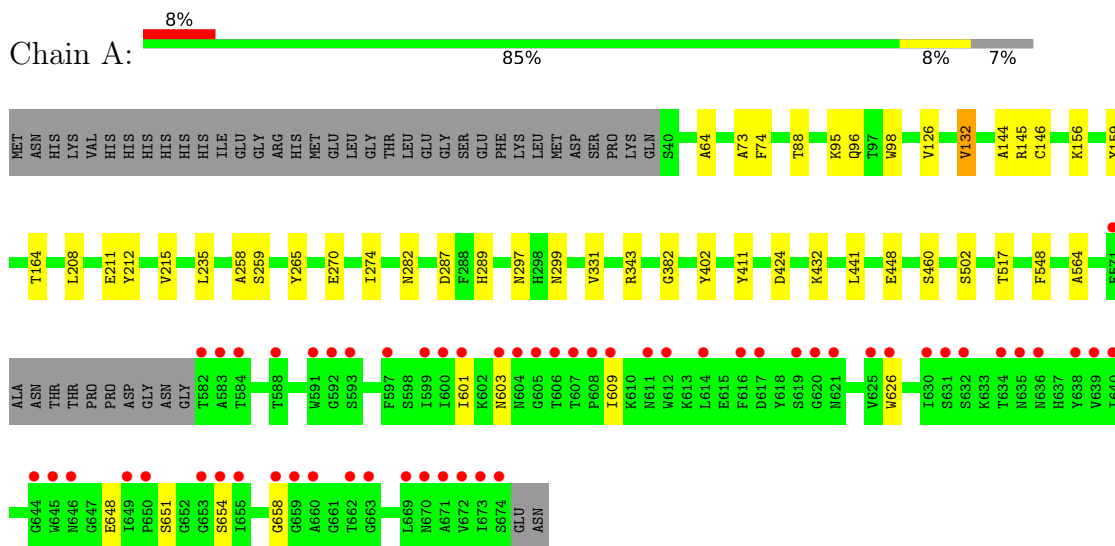
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	39	Total 39	O 39	0	0
3	B	39	Total 39	O 39	0	0

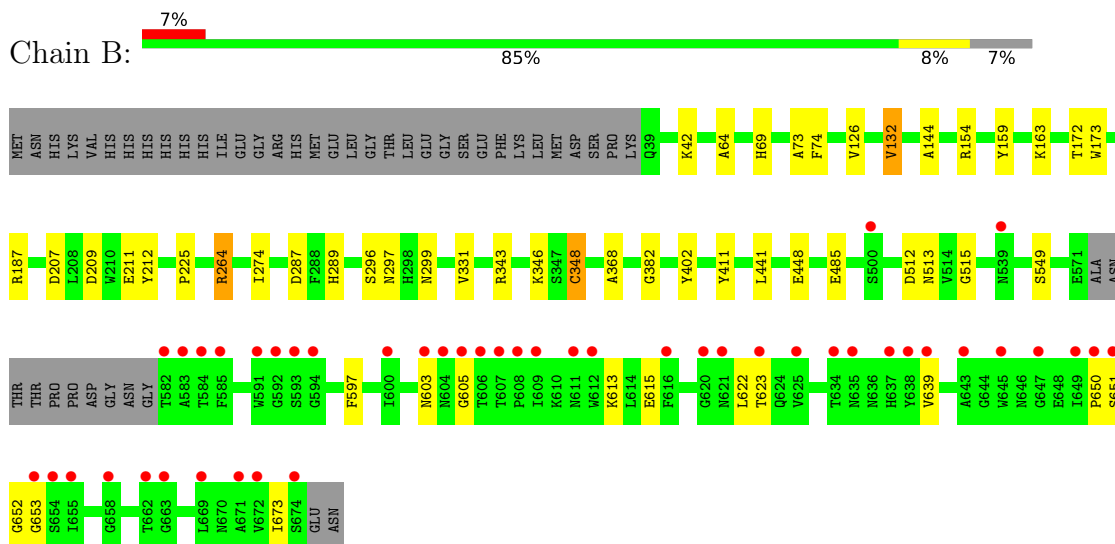
3 Residue-property plots i

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: Chitinase



- Molecule 1: Chitinase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	85.83Å 82.41Å 101.57Å 90.00° 108.11° 90.00°	Depositor
Resolution (Å)	62.76 – 2.26 62.68 – 2.26	Depositor EDS
% Data completeness (in resolution range)	99.9 (62.76-2.26) 99.9 (62.68-2.26)	Depositor EDS
R_{merge}	0.30	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.77 (at 2.27Å)	Xtrriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.239 , 0.253 0.243 , 0.258	Depositor DCC
R_{free} test set	3145 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	15.6	Xtrriage
Anisotropy	0.627	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 30.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	9450	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.32% 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

5.1 Standard geometry

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	0.53	0/4794	0.66	1/6563 (0.0%)
1	B	0.53	0/4824	0.66	0/6601
All	All	0.53	0/9618	0.66	1/13164 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	3
All	All	0	4

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	146	CYS	CA-CB-SG	-5.40	104.29	114.00

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	145	ARG	Sidechain
1	B	154	ARG	Sidechain
1	B	187	ARG	Sidechain
1	B	264	ARG	Sidechain

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	4670	0	4173	29	0
1	B	4700	0	4215	29	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	39	0	0	0	0
3	B	39	0	0	1	0
All	All	9450	0	8388	56	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 3.

All (56) 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:331:VAL:HG22	1:A:441:LEU:HD23	1.69	0.74
1:B:331:VAL:HG22	1:B:441:LEU:HD23	1.69	0.73
1:A:270:GLU:O	1:A:274:ILE:HG23	1.95	0.67
1:A:626:TRP:CE2	1:A:658:GLY:HA3	2.30	0.66
1:A:88:THR:HA	1:A:95:LYS:HD3	1.79	0.64
1:B:207:ASP:OD2	1:B:209[B]:ASP:OD1	2.16	0.63
1:B:650:PRO:HG2	1:B:653:GLY:HA3	1.80	0.63
1:A:126:VAL:HG21	1:A:144:ALA:HB1	1.79	0.62
1:A:64:ALA:HB3	1:A:159:TYR:CD2	2.35	0.61
1:A:601:ILE:O	1:A:654:SER:HA	2.01	0.60
1:B:64:ALA:HB3	1:B:159:TYR:CD2	2.36	0.60
1:B:346:LYS:HE3	1:B:368:ALA:O	2.01	0.59
1:B:597:PHE:CE2	1:B:622:LEU:HD22	2.39	0.57
1:A:208:LEU:HD12	1:A:235:LEU:HD21	1.87	0.55
1:A:460:SER:HB2	1:B:623:THR:O	2.09	0.53
1:A:132:VAL:CG2	1:A:132:VAL:O	2.58	0.52
1:A:96:GLN:HG2	1:A:98:TRP:CZ2	2.45	0.52
1:A:211:GLU:HA	1:A:212:TYR:CD1	2.46	0.51
1:B:211:GLU:HA	1:B:212:TYR:CD1	2.46	0.51
1:B:615:GLU:HG2	1:B:639:VAL:HG22	1.95	0.49
1:A:424:ASP:OD2	1:A:432:LYS:HE3	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:TYR:HB2	1:A:215:VAL:HG22	1.95	0.48
1:B:613:LYS:O	1:B:673:ILE:HA	2.11	0.48
1:B:126:VAL:HG21	1:B:144:ALA:HB1	1.97	0.47
1:B:605:GLY:O	1:B:651:SER:CB	2.63	0.47
1:A:126:VAL:CG2	1:A:144:ALA:HB1	2.46	0.46
1:A:517:THR:HB	1:B:225:PRO:HB2	1.98	0.46
1:A:156:LYS:HE2	1:A:164:THR:OG1	2.17	0.45
1:A:289:HIS:CB	1:A:297:ASN:HB3	2.46	0.45
1:A:73:ALA:HA	1:A:74:PHE:HA	1.80	0.45
1:A:208:LEU:HD12	1:A:235:LEU:CD2	2.47	0.45
1:B:73:ALA:HA	1:B:74:PHE:HA	1.80	0.45
1:A:609:ILE:O	1:A:648:GLU:HA	2.17	0.44
1:B:296:SER:HB3	1:B:348:CYS:SG	2.57	0.44
1:A:259:SER:HB2	1:A:265:TYR:CE2	2.53	0.44
1:A:603:ASN:ND2	1:A:651:SER:HA	2.32	0.44
1:B:287:ASP:HA	1:B:299:ASN:OD1	2.18	0.44
1:A:287:ASP:HA	1:A:299:ASN:OD1	2.18	0.44
1:B:343:ARG:HA	1:B:382:GLY:O	2.19	0.43
1:B:615:GLU:CG	1:B:639:VAL:HG22	2.48	0.43
1:A:626:TRP:CZ2	1:A:658:GLY:HA3	2.54	0.43
1:A:343:ARG:HA	1:A:382:GLY:O	2.19	0.43
1:A:402:TYR:HB2	1:A:411:TYR:CZ	2.54	0.42
1:B:274:ILE:HD11	3:B:826:HOH:O	2.18	0.42
1:B:512:ASP:HB3	1:B:515:GLY:H	1.84	0.42
1:B:132:VAL:O	1:B:132:VAL:HG12	2.20	0.42
1:B:69:HIS:CD2	1:B:163:LYS:HB2	2.55	0.42
1:B:289:HIS:CB	1:B:297:ASN:HB3	2.50	0.41
1:B:402:TYR:HB2	1:B:411:TYR:CZ	2.55	0.41
1:B:485:GLU:OE1	1:B:513:ASN:HB3	2.20	0.41
1:B:603:ASN:HB3	1:B:652:GLY:H	1.85	0.41
1:A:258:ALA:HA	1:A:282:ASN:O	2.21	0.41
1:A:548:PHE:O	1:A:564:ALA:HA	2.21	0.41
1:B:126:VAL:CG2	1:B:144:ALA:HB1	2.51	0.41
1:B:346:LYS:CE	1:B:368:ALA:O	2.68	0.41
1:B:172:THR:HG22	1:B:173:TRP:CD1	2.56	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	622/672 (93%)	612 (98%)	10 (2%)	0	100	100
1	B	625/672 (93%)	611 (98%)	13 (2%)	1 (0%)	47	55
All	All	1247/1344 (93%)	1223 (98%)	23 (2%)	1 (0%)	51	60

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	132	VAL

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	446/566 (79%)	443 (99%)	3 (1%)	84	90
1	B	454/566 (80%)	449 (99%)	5 (1%)	73	82
All	All	900/1132 (80%)	892 (99%)	8 (1%)	78	86

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	132	VAL
1	A	448	GLU
1	A	502	SER
1	B	42	LYS
1	B	264	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	348	CYS
1	B	448	GLU
1	B	549	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	504	GLN
1	B	506	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 monosaccharides 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

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	625/672 (93%)	0.33	57 (9%) 9 10	8, 18, 78, 127	0
1	B	626/672 (93%)	0.26	46 (7%) 15 15	9, 18, 63, 91	0
All	All	1251/1344 (93%)	0.29	103 (8%) 11 12	8, 18, 71, 127	0

All (103) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	606	THR	11.1
1	B	606	THR	6.4
1	A	653	GLY	5.8
1	A	655	ILE	5.6
1	A	601	ILE	5.5
1	A	636	ASN	5.3
1	A	582	THR	5.1
1	A	672	VAL	4.9
1	A	645	TRP	4.8
1	A	614	LEU	4.8
1	A	671	ALA	4.7
1	B	603	ASN	4.5
1	A	593	SER	4.4
1	A	631	SER	4.3
1	B	672	VAL	4.2
1	A	634	THR	4.1
1	B	671	ALA	4.1
1	A	591	TRP	4.1
1	A	673	ILE	4.1
1	A	654	SER	4.1
1	B	621	ASN	3.8
1	B	593	SER	3.8
1	B	649	ILE	3.8
1	B	674	SER	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	608	PRO	3.7
1	A	599	ILE	3.6
1	A	616	PHE	3.6
1	A	605	GLY	3.5
1	A	612	TRP	3.5
1	B	612	TRP	3.5
1	A	608	PRO	3.4
1	A	592	GLY	3.4
1	A	603	ASN	3.4
1	A	611	ASN	3.4
1	B	635	ASN	3.4
1	A	625	VAL	3.3
1	A	600	ILE	3.3
1	B	651	SER	3.3
1	A	604	ASN	3.2
1	A	626	TRP	3.2
1	B	625	VAL	3.2
1	A	635	ASN	3.1
1	A	619	SER	3.1
1	B	638	TYR	3.1
1	A	630	ILE	3.1
1	B	591	TRP	3.1
1	A	607	THR	3.1
1	A	670	ASN	3.0
1	A	674	SER	3.0
1	B	639	VAL	3.0
1	B	604	ASN	3.0
1	A	658	GLY	3.0
1	B	634	THR	3.0
1	B	616	PHE	2.9
1	A	640	ILE	2.9
1	B	645	TRP	2.9
1	A	650	PRO	2.9
1	B	605	GLY	2.9
1	B	653	GLY	2.9
1	B	658	GLY	2.8
1	A	632	SER	2.8
1	B	592	GLY	2.8
1	A	620	GLY	2.8
1	A	638	TYR	2.8
1	A	639	VAL	2.7
1	B	539	ASN	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	584	THR	2.7
1	B	643	ALA	2.6
1	A	669	LEU	2.6
1	A	660	ALA	2.6
1	B	585	PHE	2.6
1	B	600	ILE	2.6
1	B	650	PRO	2.5
1	B	607	THR	2.5
1	A	609	ILE	2.5
1	B	637	HIS	2.5
1	B	582	THR	2.4
1	B	655	ILE	2.4
1	A	588	THR	2.4
1	A	662	THR	2.4
1	A	584	THR	2.4
1	B	662	THR	2.4
1	B	611	ASN	2.4
1	B	609	ILE	2.3
1	A	644	GLY	2.3
1	B	620	GLY	2.3
1	B	669	LEU	2.3
1	A	597	PHE	2.3
1	A	583	ALA	2.3
1	B	500	SER	2.3
1	A	663	GLY	2.2
1	B	647	GLY	2.2
1	A	646	ASN	2.2
1	A	617	ASP	2.2
1	A	649	ILE	2.2
1	B	583	ALA	2.2
1	B	654	SER	2.2
1	A	621	ASN	2.1
1	B	594	GLY	2.1
1	B	663	GLY	2.1
1	B	623	THR	2.1
1	A	659	GLY	2.0
1	A	571	GLU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

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(Å ²)	Q<0.9
2	CA	A	701	1/1	0.97	0.07	14,14,14,14	0
2	CA	B	701	1/1	0.97	0.07	16,16,16,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.