



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 04:36 PM UTC

PDB ID : 6FXO / pdb_00006fxo
Title : Crystal structure of Major Bifunctional Autolysin
Authors : Pintar, S.; Turk, D.
Deposited on : 2018-03-09
Resolution : 2.50 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 Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

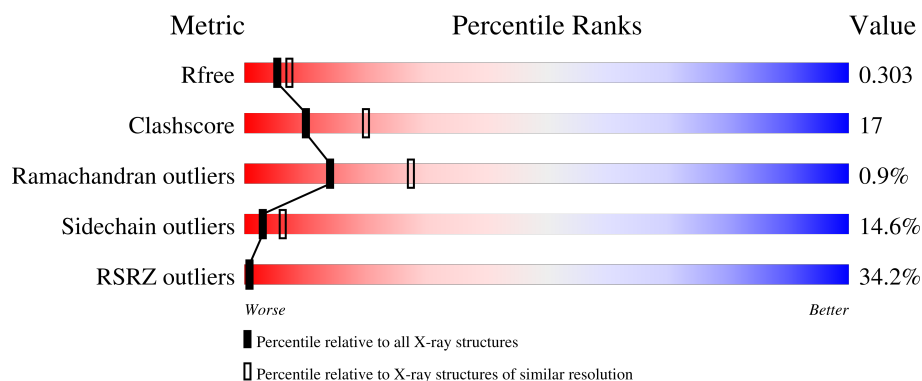
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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}	180053	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	244	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2426 atoms, of which 542 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 Bifunctional autolysin.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	231	Total	C	H	N	O	S	449	0	0
			2261	1167	434	319	337	4			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	ALA	-	expression tag	UNP Q931U5
A	2	ALA	-	expression tag	UNP Q931U5

- Molecule 2 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total	Cl	0	0
			3	3		

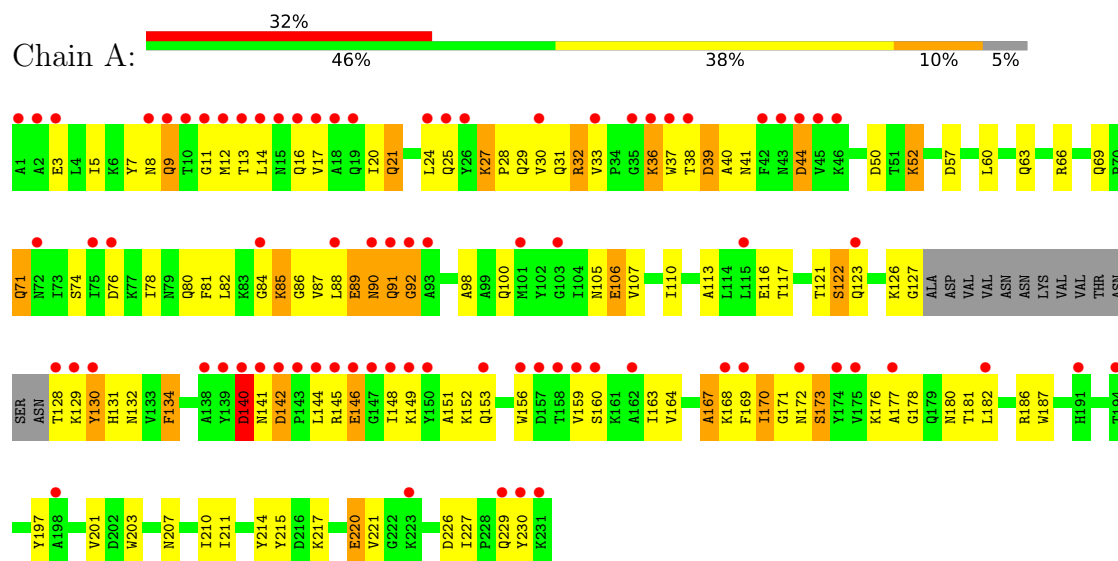
- Molecule 3 is water.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	54	Total	H	O	108	0
			162	108	54		

3 Residue-property plots

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: Bifunctional autolysin



4 Data and refinement statistics

Property	Value	Source
Space group	P 64 2 2	Depositor
Cell constants a, b, c, α , β , γ	110.17Å 110.17Å 92.39Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	35.40 – 2.50 35.40 – 2.50	Depositor EDS
% Data completeness (in resolution range)	100.0 (35.40-2.50) 99.9 (35.40-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.42 (at 2.27Å)	Xtriage
Refinement program	MAIN	Depositor
R, R_{free}	0.295 , 0.330 0.294 , 0.303	Depositor DCC
R_{free} test set	785 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	56.0	Xtriage
Anisotropy	0.019	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 112.6	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	0.90	EDS
Total number of atoms	2426	wwPDB-VP
Average B, all atoms (Å ²)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.46% 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: CL

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	1.26	6/1868 (0.3%)	1.66	41/2523 (1.6%)

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	201	VAL	CA-C	-7.77	1.43	1.52
1	A	12	MET	SD-CE	-6.04	1.64	1.79
1	A	217	LYS	CA-C	-5.82	1.45	1.52
1	A	106	GLU	CA-C	-5.77	1.45	1.52
1	A	110	ILE	N-CA	-5.56	1.39	1.46
1	A	113	ALA	CA-C	5.21	1.59	1.52

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	33	VAL	N-CA-C	-10.64	100.46	109.19
1	A	92	GLY	N-CA-C	-9.89	102.37	115.32
1	A	227	ILE	N-CA-C	9.40	117.66	107.60
1	A	131	HIS	N-CA-C	8.74	123.18	109.81
1	A	180	ASN	N-CA-C	8.42	123.12	113.02
1	A	197	TYR	N-CA-C	8.27	121.41	111.82
1	A	167	ALA	N-CA-C	7.92	120.82	111.71
1	A	159	VAL	N-CA-C	7.38	118.15	110.62
1	A	71	GLN	N-CA-C	-6.88	99.02	109.95
1	A	129	LYS	N-CA-C	6.79	120.60	109.06
1	A	169	PHE	N-CA-C	6.61	119.49	111.82
1	A	226	ASP	CA-CB-CG	6.57	119.17	112.60
1	A	91	GLN	N-CA-C	6.20	120.11	111.74
1	A	121	THR	N-CA-C	6.12	120.88	113.17
1	A	153	GLN	N-CA-C	5.92	118.52	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	176	LYS	N-CA-C	5.68	120.21	113.28
1	A	134	PHE	N-CA-C	5.59	120.82	112.94
1	A	116	GLU	N-CA-C	5.52	118.06	111.71
1	A	203	TRP	N-CA-C	5.52	118.01	111.33
1	A	5	ILE	N-CA-C	5.50	115.87	108.17
1	A	178	GLY	CA-C-N	-5.45	113.98	122.16
1	A	178	GLY	C-N-CA	-5.45	113.98	122.16
1	A	66	ARG	CA-C-N	5.43	129.79	120.72
1	A	66	ARG	C-N-CA	5.43	129.79	120.72
1	A	170	ILE	N-CA-C	5.40	116.02	108.89
1	A	177	ALA	N-CA-C	-5.34	106.64	112.72
1	A	203	TRP	CA-C-O	-5.33	114.88	120.63
1	A	132	ASN	CA-C-N	-5.32	113.86	121.52
1	A	132	ASN	C-N-CA	-5.32	113.86	121.52
1	A	173	SER	CA-C-N	-5.30	114.00	122.17
1	A	173	SER	C-N-CA	-5.30	114.00	122.17
1	A	148	ILE	CA-C-N	5.16	127.70	120.28
1	A	148	ILE	C-N-CA	5.16	127.70	120.28
1	A	11	GLY	N-CA-C	-5.09	108.59	115.36
1	A	180	ASN	CA-CB-CG	5.09	117.69	112.60
1	A	163	ILE	CA-C-N	-5.09	114.05	120.56
1	A	163	ILE	C-N-CA	-5.09	114.05	120.56
1	A	106	GLU	N-CA-C	5.07	116.88	111.36
1	A	207	ASN	CB-CG-ND2	5.05	123.98	116.40
1	A	132	ASN	CB-CA-C	-5.04	104.82	111.42
1	A	130	TYR	N-CA-C	-5.01	102.10	110.17

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	1827	434	1811	62	3
2	A	3	0	0	2	0
3	A	54	108	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	1884	542	1811	62	3

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 17.

All (62) 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:144:LEU:HB3	2:A:302:CL:CL	2.02	0.96
1:A:117:THR:HA	1:A:122:SER:HB3	1.63	0.79
1:A:29:GLN:HB3	1:A:37:TRP:HB3	1.62	0.78
1:A:31:GLN:HG3	1:A:37:TRP:NE1	2.01	0.75
1:A:90:ASN:O	1:A:91:GLN:HG2	1.89	0.72
1:A:142:ASP:O	1:A:146:GLU:HB2	1.89	0.72
1:A:182:LEU:HD11	1:A:211:ILE:HD12	1.71	0.71
1:A:127:GLY:HA2	1:A:130:TYR:O	1.92	0.68
1:A:84:GLY:H	1:A:89:GLU:HG2	1.58	0.68
1:A:27:LYS:HD3	1:A:27:LYS:H	1.64	0.63
1:A:28:PRO:C	1:A:29:GLN:HE21	2.08	0.61
1:A:107:VAL:HG21	1:A:215:TYR:CE1	2.35	0.61
1:A:87:VAL:O	1:A:88:LEU:HB2	2.01	0.60
1:A:13:THR:HG23	1:A:16:GLN:HB2	1.84	0.59
1:A:105:ASN:OD1	1:A:107:VAL:HG22	2.03	0.58
1:A:36:LYS:HE2	1:A:37:TRP:O	2.03	0.57
1:A:210:ILE:HG22	1:A:214:TYR:HE2	1.68	0.57
1:A:63:GLN:O	1:A:181:THR:HB	2.04	0.57
1:A:52:LYS:HD3	3:A:440:HOH:O	2.05	0.56
1:A:9:GLN:HG3	1:A:229:GLN:HB2	1.87	0.56
1:A:171:GLY:HA2	2:A:301:CL:CL	2.44	0.55
1:A:28:PRO:HG3	3:A:415:HOH:O	2.07	0.55
1:A:16:GLN:O	1:A:20:ILE:HG13	2.08	0.54
1:A:85:LYS:O	1:A:87:VAL:O	2.26	0.53
1:A:40:ALA:HB1	1:A:44:ASP:HB3	1.90	0.53
1:A:130:TYR:CD2	1:A:152:LYS:HA	2.44	0.52
1:A:220:GLU:HG3	1:A:221:VAL:H	1.75	0.52
1:A:13:THR:CG2	1:A:16:GLN:HB2	2.40	0.52
1:A:210:ILE:HG22	1:A:214:TYR:CE2	2.45	0.51
1:A:81:PHE:CZ	1:A:214:TYR:HD1	2.30	0.49
1:A:98:ALA:HB1	1:A:167:ALA:CB	2.41	0.49
1:A:134:PHE:CE2	1:A:170:ILE:HG13	2.48	0.49
1:A:21:GLN:HG2	1:A:187:TRP:HZ3	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:82:LEU:O	1:A:89:GLU:HA	2.13	0.48
1:A:84:GLY:N	1:A:89:GLU:HG2	2.29	0.47
1:A:81:PHE:HZ	1:A:214:TYR:HD1	1.62	0.46
1:A:182:LEU:HD11	1:A:211:ILE:CD1	2.42	0.46
1:A:57:ASP:HB3	1:A:60:LEU:HB2	1.98	0.45
1:A:71:GLN:HE22	1:A:220:GLU:HG2	1.81	0.45
1:A:14:LEU:HA	1:A:17:VAL:HG22	1.99	0.45
1:A:17:VAL:HG21	1:A:230:TYR:CE1	2.53	0.44
1:A:27:LYS:HA	1:A:28:PRO:HD3	1.74	0.43
1:A:123:GLN:HA	1:A:126:LYS:HB2	2.00	0.43
1:A:117:THR:CA	1:A:122:SER:HB3	2.43	0.43
1:A:78:ILE:CG2	1:A:92:GLY:HA3	2.49	0.43
1:A:13:THR:O	1:A:17:VAL:HG22	2.18	0.42
1:A:14:LEU:HA	1:A:17:VAL:CG2	2.49	0.42
1:A:160:SER:O	1:A:164:VAL:HG23	2.19	0.42
1:A:30:VAL:HG12	1:A:38:THR:O	2.19	0.42
1:A:86:GLY:C	1:A:87:VAL:O	2.61	0.42
1:A:21:GLN:O	1:A:24:LEU:HG	2.18	0.42
1:A:13:THR:HG23	1:A:16:GLN:H	1.85	0.41
1:A:29:GLN:HB3	1:A:37:TRP:CB	2.41	0.41
1:A:145:ARG:O	1:A:149:LYS:HB2	2.20	0.41
1:A:32:ARG:NH2	1:A:44:ASP:OD2	2.54	0.41
1:A:87:VAL:O	1:A:88:LEU:CB	2.64	0.41
1:A:87:VAL:C	1:A:89:GLU:H	2.28	0.41
1:A:168:LYS:O	1:A:172:ASN:ND2	2.49	0.41
1:A:123:GLN:HG3	1:A:144:LEU:HD11	2.03	0.41
1:A:186:ARG:HG3	1:A:187:TRP:CE2	2.56	0.40
1:A:151:ALA:HA	1:A:156:TRP:CE3	2.56	0.40
1:A:210:ILE:O	1:A:214:TYR:CD2	2.74	0.40

All (3) 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)
1:A:141:ASN:HD22	1:A:142:ASP:OD1[8_556]	1.45	0.15
1:A:3:GLU:O	1:A:7:TYR:H[10_665]	1.53	0.07
1:A:39:ASP:OD2	1:A:140:ASP:CB[11_656]	2.17	0.03

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	227/244 (93%)	215 (95%)	10 (4%)	2 (1%)	14 27

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	50	ASP
1	A	140	ASP

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	185/197 (94%)	158 (85%)	27 (15%)	3 6

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	ASN
1	A	9	GLN
1	A	21	GLN
1	A	25	GLN
1	A	27	LYS
1	A	32	ARG
1	A	36	LYS
1	A	39	ASP
1	A	41	ASN

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Mol	Chain	Res	Type
1	A	44	ASP
1	A	52	LYS
1	A	69	GLN
1	A	74	SER
1	A	76	ASP
1	A	80	GLN
1	A	85	LYS
1	A	89	GLU
1	A	90	ASN
1	A	100	GLN
1	A	106	GLU
1	A	122	SER
1	A	128	THR
1	A	140	ASP
1	A	142	ASP
1	A	146	GLU
1	A	173	SER
1	A	220	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	9	GLN
1	A	16	GLN
1	A	19	GLN
1	A	29	GLN
1	A	41	ASN
1	A	69	GLN
1	A	119	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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 3 ligands modelled in this entry, 3 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 ⓘ

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	231/244 (94%)	1.58	79 (34%) ⓘ ⓘ	19, 48, 106, 136	5 (2%)

All (79) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	10	THR	5.9
1	A	30	VAL	5.1
1	A	2	ALA	5.1
1	A	143	PRO	5.0
1	A	38	THR	4.5
1	A	130	TYR	4.4
1	A	35	GLY	4.2
1	A	158	THR	4.2
1	A	140	ASP	4.1
1	A	26	TYR	4.0
1	A	159	VAL	4.0
1	A	11	GLY	3.9
1	A	141	ASN	3.9
1	A	156	TRP	3.8
1	A	46	LYS	3.7
1	A	128	THR	3.7
1	A	84	GLY	3.7
1	A	36	LYS	3.6
1	A	14	LEU	3.6
1	A	138	ALA	3.6
1	A	1	ALA	3.5
1	A	177	ALA	3.5
1	A	153	GLN	3.4
1	A	24	LEU	3.4
1	A	42	PHE	3.4
1	A	172	ASN	3.3
1	A	148	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
1	A	19	GLN	3.3
1	A	168	LYS	3.3
1	A	142	ASP	3.2
1	A	139	TYR	3.2
1	A	37	TRP	3.2
1	A	145	ARG	3.1
1	A	149	LYS	3.1
1	A	150	TYR	3.1
1	A	231	LYS	3.1
1	A	25	GLN	3.0
1	A	33	VAL	3.0
1	A	18	ALA	3.0
1	A	12	MET	2.9
1	A	123	GLN	2.9
1	A	16	GLN	2.8
1	A	129	LYS	2.8
1	A	147	GLY	2.8
1	A	9	GLN	2.8
1	A	75	ILE	2.7
1	A	160	SER	2.7
1	A	13	THR	2.7
1	A	3	GLU	2.7
1	A	223	LYS	2.7
1	A	15	ASN	2.6
1	A	144	LEU	2.6
1	A	230	TYR	2.6
1	A	88	LEU	2.6
1	A	146	GLU	2.6
1	A	76	ASP	2.5
1	A	92	GLY	2.5
1	A	43	ASN	2.5
1	A	90	ASN	2.5
1	A	174	TYR	2.4
1	A	229	GLN	2.4
1	A	91	GLN	2.3
1	A	182	LEU	2.3
1	A	194	THR	2.3
1	A	191	HIS	2.3
1	A	17	VAL	2.3
1	A	93	ALA	2.2
1	A	101	MET	2.2
1	A	44	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	175	VAL	2.2
1	A	45	VAL	2.2
1	A	103	GLY	2.2
1	A	8	ASN	2.1
1	A	72	ASN	2.1
1	A	157	ASP	2.1
1	A	198	ALA	2.1
1	A	169	PHE	2.1
1	A	115	LEU	2.0
1	A	162	ALA	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 oligosaccharides 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	CL	A	302	1/1	0.80	0.14	81,81,81,81	0
2	CL	A	303	1/1	0.81	0.19	66,66,66,66	0
2	CL	A	301	1/1	0.91	0.16	55,55,55,55	0

6.5 Other polymers [i](#)

There are no such residues in this entry.