



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 02:52 AM UTC

PDB ID : 1XTG / pdb_00001xtg
Title : Crystal structure of NEUROTOXIN BONT/A complexed with Synaptosoma l-associated protein 25
Authors : Breidenbach, M.A.; Brunger, A.T.
Deposited on : 2004-10-21
Resolution : 2.10 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

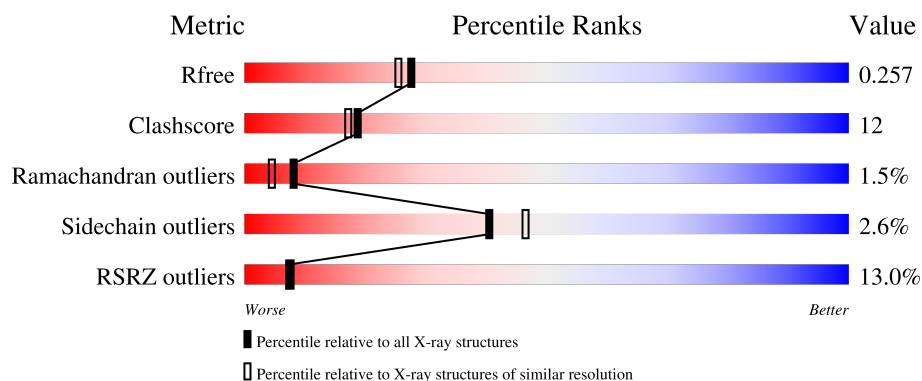
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	424	9% 79% 18% .
2	B	59	42% 71% 25% ..

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4271 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 NEUROTOXIN BONT/A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	424	Total	C	N	O	S	23	0	0
			3431	2214	564	645	8			

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	224	GLN	GLU	engineered mutation	GB 33321098
A	366	PHE	TYR	engineered mutation	GB 33321098
A	421	PRO	-	cloning artifact	GB 33321098
A	422	LEU	-	cloning artifact	GB 33321098
A	423	VAL	-	cloning artifact	GB 33321098
A	424	PRO	-	cloning artifact	GB 33321098
A	425	ARG	-	cloning artifact	GB 33321098

- Molecule 2 is a protein called Synaptosomal-associated protein 25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	59	Total	C	N	O	S	29	0	0
			466	275	89	97	5			

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Zn	0	0
			1	1		

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Cl	0	0
			1	1		

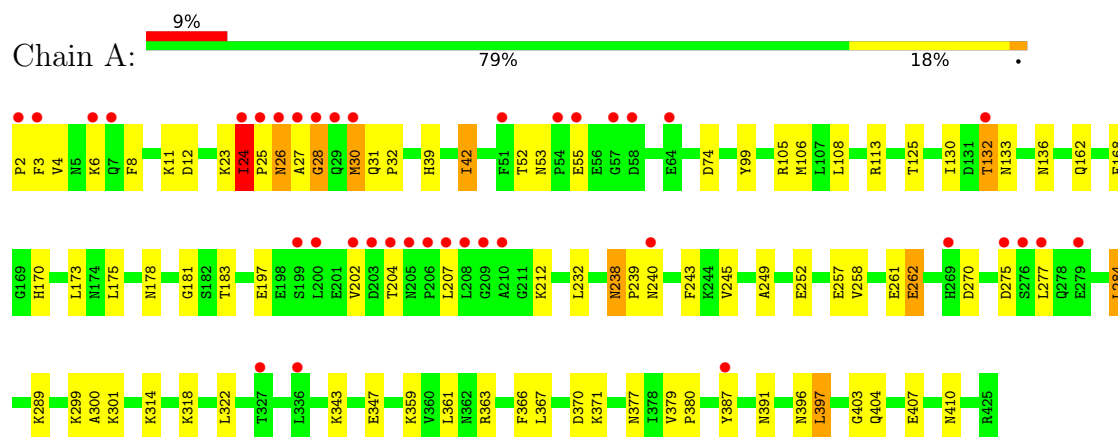
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	322	Total 322	O 322	0	0
5	B	50	Total 50	O 50	0	0

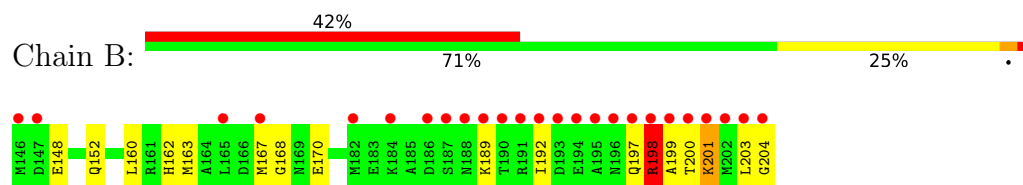
3 Residue-property plots [i](#)

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: NEUROTOXIN BONT/A



• Molecule 2: Synaptosomal-associated protein 25



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	86.00Å 86.00Å 165.40Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.92 – 2.10 29.92 – 2.10	Depositor EDS
% Data completeness (in resolution range)	(Not available) (29.92-2.10) 98.7 (29.92-2.10)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.30 (at 2.10Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.218 , 0.247 0.224 , 0.257	Depositor DCC
R_{free} test set	3419 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	27.6	Xtriage
Anisotropy	0.112	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 43.8	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	0.93	EDS
Total number of atoms	4271	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.77% 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, ZN

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	0.39	0/3514	0.86	8/4759 (0.2%)
2	B	0.54	1/466 (0.2%)	0.89	1/619 (0.2%)
All	All	0.41	1/3980 (0.0%)	0.87	9/5378 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	204	GLY	C-OXT	7.94	1.39	1.23

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	175	LEU	N-CA-C	6.14	118.76	111.33
1	A	410	ASN	N-CA-C	6.08	119.80	112.38
1	A	249	ALA	N-CA-C	6.04	118.83	111.82
1	A	24	ILE	CA-C-N	5.74	127.01	119.84
1	A	24	ILE	C-N-CA	5.74	127.01	119.84
1	A	387	TYR	N-CA-C	5.63	119.32	112.23
1	A	318	LYS	N-CA-C	-5.59	105.19	111.28
1	A	42	ILE	N-CA-C	5.16	115.41	107.77
2	B	201	LYS	N-CA-C	5.08	121.62	110.80

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	3431	0	3388	72	0
2	B	466	0	459	30	0
3	A	1	0	0	0	0
4	A	1	0	0	0	0
5	A	322	0	0	5	0
5	B	50	0	0	1	0
All	All	4271	0	3847	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 12.

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)
2:B:201:LYS:HD3	2:B:203:LEU:HD21	1.35	1.07
2:B:200:THR:HG22	2:B:201:LYS:H	1.28	0.99
1:A:322:LEU:HD21	2:B:167:MET:HE3	1.56	0.86
2:B:201:LYS:CD	2:B:203:LEU:HD21	2.07	0.85
1:A:361:LEU:H	1:A:404:GLN:HE22	1.22	0.83
1:A:2:PRO:HG3	1:A:108:LEU:HB3	1.65	0.79
2:B:198:ARG:HH11	2:B:198:ARG:HB2	1.49	0.77
1:A:2:PRO:HA	1:A:108:LEU:HD13	1.67	0.76
1:A:2:PRO:HD2	1:A:39:HIS:CG	2.20	0.75
2:B:163:MET:HA	2:B:163:MET:HE2	1.67	0.75
1:A:300:ALA:HB3	1:A:314:LYS:HE2	1.69	0.73
2:B:201:LYS:HG2	2:B:203:LEU:HD23	1.70	0.72
1:A:24:ILE:HG13	1:A:27:ALA:HB3	1.72	0.70
1:A:396:ASN:HB2	5:A:636:HOH:O	1.91	0.70
1:A:11:LYS:HD2	1:A:11:LYS:C	2.21	0.66
2:B:162:HIS:HB2	5:B:237:HOH:O	1.96	0.65
2:B:201:LYS:HG2	2:B:203:LEU:CD2	2.25	0.65
2:B:200:THR:HG22	2:B:201:LYS:N	2.08	0.63
1:A:361:LEU:H	1:A:404:GLN:NE2	1.97	0.60
1:A:238:ASN:HD22	1:A:240:ASN:H	1.49	0.60
1:A:39:HIS:HE1	2:B:170:GLU:OE2	1.85	0.59
1:A:52:THR:O	2:B:192:ILE:HD11	2.02	0.58
1:A:212:LYS:HG3	1:A:407:GLU:HG3	1.85	0.58
2:B:198:ARG:HB2	2:B:198:ARG:NH1	2.20	0.56
1:A:106:MET:HE3	5:A:559:HOH:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:201:LYS:CD	2:B:203:LEU:CD2	2.83	0.55
1:A:24:ILE:HB	1:A:26:ASN:ND2	2.21	0.55
1:A:238:ASN:ND2	1:A:240:ASN:H	2.04	0.55
1:A:238:ASN:HD22	1:A:239:PRO:N	2.05	0.55
1:A:391:ASN:HD21	1:A:404:GLN:HE21	1.53	0.54
1:A:11:LYS:HD2	1:A:12:ASP:N	2.23	0.54
1:A:322:LEU:CD2	2:B:167:MET:HE3	2.33	0.54
1:A:262:GLU:OE1	1:A:262:GLU:HA	2.07	0.52
1:A:170:HIS:HD2	1:A:173:LEU:H	1.58	0.52
1:A:397:LEU:HG	1:A:403:GLY:HA2	1.91	0.52
1:A:343:LYS:HG3	1:A:347:GLU:OE1	2.10	0.52
1:A:3:PHE:HD1	1:A:4:VAL:N	2.08	0.51
1:A:238:ASN:HD22	1:A:238:ASN:C	2.18	0.51
2:B:201:LYS:CG	2:B:203:LEU:HD21	2.40	0.51
1:A:106:MET:HE1	2:B:168:GLY:HA2	1.93	0.51
1:A:361:LEU:N	1:A:404:GLN:HE22	2.01	0.50
1:A:6:LYS:HG2	1:A:8:PHE:CZ	2.46	0.50
1:A:257:GLU:HB3	2:B:201:LYS:HB3	1.94	0.49
1:A:106:MET:HG2	2:B:160:LEU:HD22	1.95	0.49
1:A:130:ILE:HD12	5:A:531:HOH:O	2.13	0.49
1:A:99:TYR:CD1	1:A:105:ARG:HG2	2.48	0.49
2:B:201:LYS:CG	2:B:203:LEU:CD2	2.90	0.48
2:B:200:THR:CG2	2:B:201:LYS:H	2.10	0.48
2:B:148:GLU:O	2:B:152:GLN:HG3	2.14	0.47
1:A:162:GLN:CD	2:B:197:GLN:HE22	2.22	0.47
1:A:113:ARG:NH1	2:B:167:MET:HE2	2.30	0.46
1:A:284:LEU:HD13	1:A:284:LEU:O	2.15	0.46
1:A:133:ASN:ND2	1:A:183:THR:H	2.13	0.46
1:A:26:ASN:OD1	1:A:132:THR:HA	2.17	0.45
2:B:198:ARG:NH2	2:B:199:ALA:HB3	2.32	0.45
1:A:25:PRO:HG3	1:A:136:ASN:ND2	2.32	0.45
1:A:3:PHE:O	1:A:39:HIS:HD2	2.00	0.45
1:A:238:ASN:ND2	1:A:239:PRO:HD2	2.32	0.45
1:A:26:ASN:HB2	1:A:168:PHE:CD1	2.51	0.44
1:A:379:VAL:HB	1:A:380:PRO:HD3	1.98	0.44
1:A:181:GLY:HA3	1:A:232:LEU:O	2.17	0.44
1:A:53:ASN:ND2	1:A:55:GLU:H	2.16	0.44
1:A:275:ASP:OD2	1:A:277:LEU:HB2	2.18	0.44
1:A:359:LYS:O	1:A:359:LYS:HG2	2.17	0.44
1:A:170:HIS:CD2	1:A:173:LEU:H	2.35	0.44
1:A:11:LYS:C	1:A:11:LYS:CD	2.91	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:197:GLU:HG3	1:A:371:LYS:HZ2	1.83	0.44
1:A:125:THR:HB	1:A:301:LYS:HG2	1.99	0.44
1:A:245:VAL:HG11	1:A:367:LEU:HD21	2.00	0.44
2:B:167:MET:HE2	2:B:167:MET:HA	2.01	0.43
1:A:23:LYS:HE2	1:A:30:MET:O	2.19	0.43
1:A:2:PRO:HD3	1:A:42:ILE:HD12	2.00	0.42
1:A:258:VAL:HG11	1:A:366:PHE:CE2	2.54	0.42
1:A:299:LYS:O	1:A:301:LYS:HE2	2.19	0.42
1:A:377:ASN:ND2	5:A:638:HOH:O	2.47	0.42
2:B:201:LYS:HD3	2:B:203:LEU:CD2	2.24	0.42
1:A:31:GLN:HG3	1:A:32:PRO:HD2	2.01	0.42
1:A:133:ASN:HD22	1:A:183:THR:H	1.68	0.42
1:A:243:PHE:HB3	1:A:258:VAL:HG23	2.01	0.42
1:A:363:ARG:HH22	1:A:370:ASP:CG	2.25	0.42
1:A:178:ASN:HA	1:A:289:LYS:HE2	2.01	0.42
1:A:2:PRO:HD2	1:A:39:HIS:ND1	2.35	0.42
1:A:238:ASN:HD22	1:A:239:PRO:CD	2.33	0.41
1:A:113:ARG:NH1	2:B:167:MET:CE	2.83	0.41
1:A:284:LEU:HD12	5:A:658:HOH:O	2.20	0.41
1:A:270:ASP:OD2	1:A:366:PHE:HD1	2.03	0.41
1:A:31:GLN:HE21	1:A:32:PRO:HD2	1.84	0.41
1:A:258:VAL:HG12	2:B:199:ALA:O	2.20	0.41
2:B:197:GLN:O	2:B:198:ARG:C	2.64	0.41
1:A:27:ALA:O	1:A:28:GLY:C	2.64	0.40
1:A:31:GLN:NE2	1:A:32:PRO:HD2	2.37	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	422/424 (100%)	393 (93%)	24 (6%)	5 (1%)	10 7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	57/59 (97%)	47 (82%)	8 (14%)	2 (4%)	3	1
All	All	479/483 (99%)	440 (92%)	32 (7%)	7 (2%)	8	4

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	189	LYS
1	A	28	GLY
2	B	198	ARG
1	A	207	LEU
1	A	204	THR
1	A	74	ASP
1	A	202	VAL

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	380/380 (100%)	370 (97%)	10 (3%)	40	46
2	B	51/51 (100%)	50 (98%)	1 (2%)	48	56
All	All	431/431 (100%)	420 (97%)	11 (3%)	40	46

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	24	ILE
1	A	26	ASN
1	A	30	MET
1	A	132	THR
1	A	238	ASN
1	A	252	GLU
1	A	261	GLU
1	A	262	GLU
1	A	284	LEU

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Mol	Chain	Res	Type
1	A	397	LEU
2	B	198	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	ASN
1	A	31	GLN
1	A	39	HIS
1	A	53	ASN
1	A	67	GLN
1	A	133	ASN
1	A	170	HIS
1	A	224	GLN
1	A	238	ASN
1	A	269	HIS
1	A	377	ASN
1	A	383	ASN
1	A	404	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 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

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	424/424 (100%)	0.40	38 (8%) 15 16	14, 26, 51, 75	6 (1%)
2	B	59/59 (100%)	1.95	25 (42%) 0 1	21, 43, 74, 78	8 (13%)
All	All	483/483 (100%)	0.59	63 (13%) 7 7	14, 27, 62, 78	14 (2%)

All (63) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	199	ALA	9.2
1	A	209	GLY	8.7
1	A	207	LEU	7.5
1	A	208	LEU	7.1
1	A	26	ASN	6.7
2	B	197	GLN	5.9
2	B	200	THR	5.6
1	A	200	LEU	5.3
2	B	198	ARG	5.0
1	A	25	PRO	4.9
2	B	190	THR	4.9
2	B	196	ASN	4.9
1	A	24	ILE	4.8
1	A	203	ASP	4.7
1	A	30	MET	4.4
1	A	204	THR	4.4
2	B	192	ILE	4.2
1	A	206	PRO	4.1
1	A	2	PRO	3.9
2	B	189	LYS	3.9
1	A	275	ASP	3.8
2	B	165	LEU	3.8
2	B	201	LYS	3.7
1	A	202	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	51	PHE	3.5
1	A	27	ALA	3.5
1	A	327	THR	3.4
2	B	195	ALA	3.3
1	A	28	GLY	3.2
1	A	58	ASP	3.2
1	A	132	THR	3.2
2	B	203	LEU	3.1
2	B	186	ASP	3.1
1	A	199	SER	3.0
1	A	7	GLN	3.0
2	B	191	ARG	3.0
2	B	187	SER	3.0
1	A	3	PHE	3.0
1	A	29	GLN	2.9
1	A	240	ASN	2.9
2	B	146	MET	2.7
1	A	54	PRO	2.7
2	B	193	ASP	2.7
1	A	387	TYR	2.7
1	A	55	GLU	2.6
2	B	188	ASN	2.6
2	B	147	ASP	2.6
2	B	167	MET	2.5
2	B	202	MET	2.5
2	B	184	LYS	2.5
1	A	277	LEU	2.4
1	A	64	GLU	2.4
1	A	205	ASN	2.3
1	A	336	LEU	2.3
1	A	210	ALA	2.3
1	A	279	GLU	2.3
1	A	269	HIS	2.2
1	A	6	LYS	2.2
1	A	57	GLY	2.1
2	B	182	MET	2.1
2	B	194	GLU	2.1
2	B	204	GLY	2.1
1	A	276	SER	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($\text{\AA}^2$)	Q<0.9
4	CL	A	427	1/1	0.97	0.10	36,36,36,36	0
3	ZN	A	426	1/1	0.99	0.04	33,33,33,33	0

6.5 Other polymers [i](#)

There are no such residues in this entry.