



Full wwPDB X-ray Structure Validation Report ⓘ

May 14, 2020 – 10:23 am BST

PDB ID : 2NQA
Title : Catalytic Domain of Human Calpain 8
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Deposited on : 2006-10-30
Resolution : 2.20 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (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

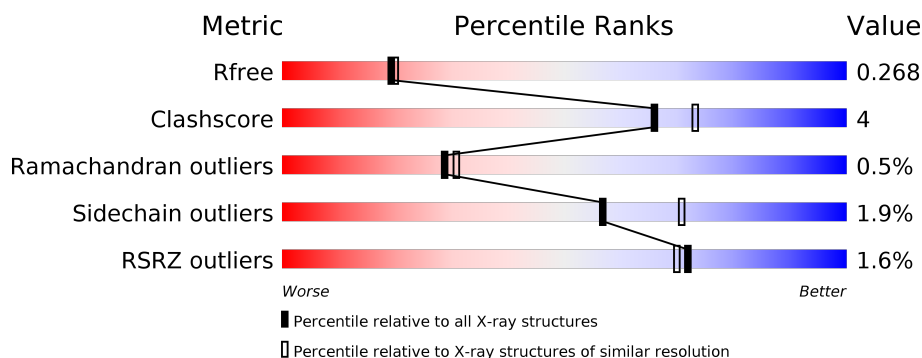
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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	326	<div> <div>2%</div> <div> <div></div> <div>86%</div> <div>9%</div> <div>5%</div> </div> </div>
1	B	326	<div> <div>%</div> <div> <div></div> <div>89%</div> <div>8%</div> <div>..</div> </div> </div>
2	D	4	<div> <div>25%</div> <div>50%</div> <div>25%</div> </div>
2	E	4	<div> <div>25%</div> <div>50%</div> <div>25%</div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5413 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 Calpain-8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	310	Total	C	N	O	S	0	1	0
			2485	1587	413	474	11			
1	B	318	Total	C	N	O	S	21	2	0
			2556	1631	429	486	10			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	21	GLY	-	expression tag	UNP A6NHC0
A	22	SER	-	expression tag	UNP A6NHC0
A	245	TYR	SER	conflict	UNP A6NHC0
B	21	GLY	-	expression tag	UNP A6NHC0
B	22	SER	-	expression tag	UNP A6NHC0
B	245	TYR	SER	conflict	UNP A6NHC0

- Molecule 2 is a protein called Leupeptin Inhibitor.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	D	4	Total	C	N	O	0	0	0
			30	20	6	4			
2	E	4	Total	C	N	O	0	0	0
			29	20	6	3			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	2	Total	Ca	0	0
			2	2		
3	A	3	Total	Ca	0	0
			3	3		

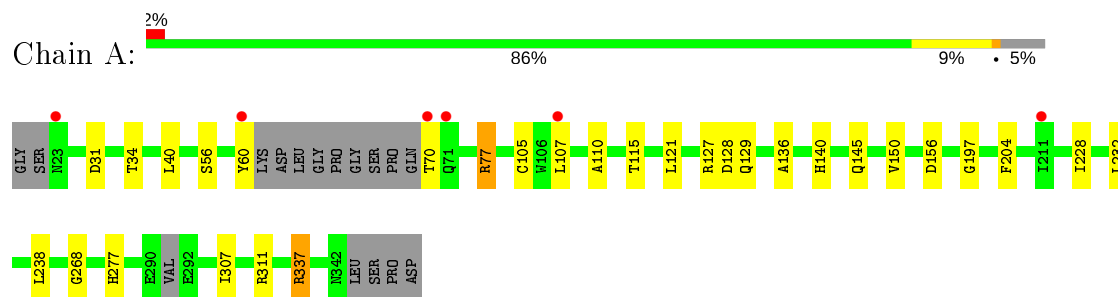
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	175	Total 175	O 175	0	0
4	B	129	Total 129	O 129	0	0
4	D	3	Total 3	O 3	0	0
4	E	1	Total 1	O 1	0	0

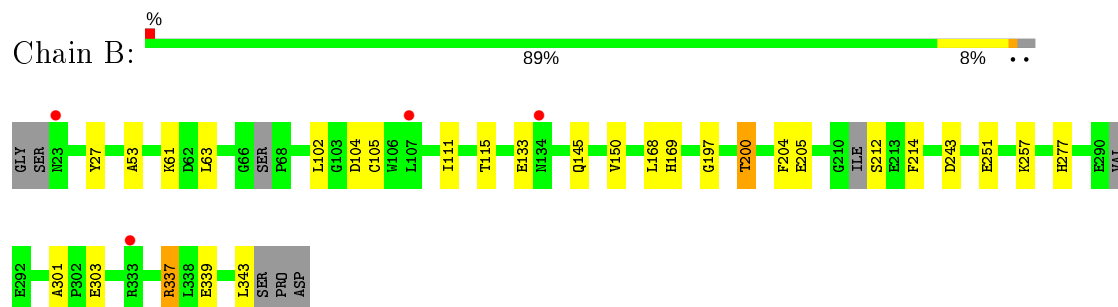
3 Residue-property plots [i](#)

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: Calpain-8



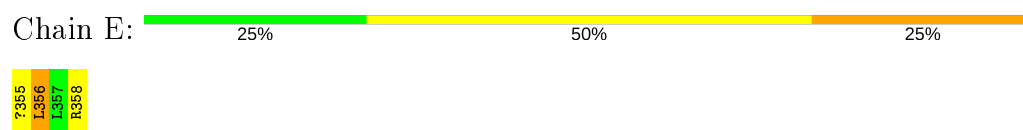
• Molecule 1: Calpain-8



• Molecule 2: Leupeptin Inhibitor



• Molecule 2: Leupeptin Inhibitor



4 Data and refinement statistics

Property	Value	Source
Space group	P 61	Depositor
Cell constants a, b, c, α , β , γ	91.79 Å 91.79 Å 194.59 Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	38.95 – 2.20 38.94 – 2.20	Depositor EDS
% Data completeness (in resolution range)	93.3 (38.95-2.20) 93.3 (38.94-2.20)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.57 (at 2.20 Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.205 , 0.268 0.210 , 0.268	Depositor DCC
R_{free} test set	2229 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	33.5	Xtriage
Anisotropy	0.027	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 40.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.055 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5413	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.12% 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: CSO, CA, ACE, AR7

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	0.71	0/2509	0.73	3/3391 (0.1%)
1	B	0.74	2/2582 (0.1%)	0.74	3/3488 (0.1%)
2	D	0.46	0/16	2.29	1/21 (4.8%)
2	E	0.70	0/16	1.40	0/21
All	All	0.73	2/5123 (0.0%)	0.75	7/6921 (0.1%)

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
2	D	1	0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	277[A]	HIS	C-N	-5.27	1.24	1.34
1	B	277[B]	HIS	C-N	-5.27	1.24	1.34

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	337	ARG	NE-CZ-NH2	-7.43	116.58	120.30
1	B	337	ARG	NE-CZ-NH1	6.88	123.74	120.30
1	A	337	ARG	NE-CZ-NH2	-6.45	117.07	120.30
1	B	104	ASP	CB-CG-OD1	5.63	123.37	118.30
1	A	337	ARG	NE-CZ-NH1	5.56	123.08	120.30
2	D	356	LEU	CB-CA-C	5.54	120.72	110.20
1	A	77	ARG	NE-CZ-NH2	-5.11	117.74	120.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	D	356	LEU	CA

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	2485	0	2369	21	0
1	B	2556	0	2440	18	0
2	D	30	0	37	5	0
2	E	29	0	37	7	0
3	A	3	0	0	0	0
3	B	2	0	0	0	0
4	A	175	0	0	3	0
4	B	129	0	0	3	0
4	D	3	0	0	0	0
4	E	1	0	0	0	0
All	All	5413	0	4883	40	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 4.

All (40) 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:B:105:CYS:SG	2:E:358:AR7:C	2.08	1.42
1:A:105:CYS:SG	2:D:358:AR7:C	2.08	1.41
1:A:105:CYS:HG	2:D:358:AR7:C	1.43	1.23
1:B:251:GLU:OE2	4:B:1032:HOH:O	1.85	0.94
1:A:70:THR:HG22	1:A:70:THR:O	1.73	0.87
1:B:105:CYS:SG	2:E:358:AR7:CA	2.66	0.83
1:B:63:LEU:HD11	1:B:102:LEU:HD13	1.75	0.68
1:A:105:CYS:SG	2:D:358:AR7:CA	2.84	0.65
1:A:70:THR:CG2	1:A:70:THR:O	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:77:ARG:NE	4:A:1048:HOH:O	2.31	0.62
1:A:129:GLN:HE22	1:A:140:HIS:H	1.46	0.62
1:B:168:LEU:HD23	1:B:169:HIS:N	2.15	0.61
1:A:228:ILE:HG23	1:A:238:LEU:CD2	2.34	0.58
1:A:197:GLY:O	2:D:356:LEU:HG	2.03	0.58
1:A:145:GLN:HB3	1:A:150:VAL:HG21	1.86	0.58
1:B:145:GLN:HB3	1:B:150:VAL:HG21	1.85	0.58
2:E:355:ACE:H2	2:E:356:LEU:HB2	1.85	0.57
2:E:355:ACE:CH3	2:E:356:LEU:HB2	2.37	0.53
1:B:243:ASP:OD1	4:B:955:HOH:O	2.19	0.51
1:A:129:GLN:NE2	1:A:140:HIS:H	2.08	0.51
1:B:200:THR:HG21	1:B:205:GLU:HG2	1.95	0.48
1:A:307:ILE:HD12	1:A:311:ARG:HB2	1.95	0.48
1:B:105:CYS:SG	2:E:358:AR7:HA	2.53	0.48
1:A:31:ASP:OD2	1:A:34:THR:HG23	2.15	0.47
1:B:197:GLY:O	2:E:356:LEU:HG	2.14	0.47
1:B:105:CYS:CB	2:E:358:AR7:C	2.91	0.47
1:A:115:THR:HA	1:A:121:LEU:HD22	1.96	0.47
1:A:56:SER:HA	1:B:61:LYS:HE2	1.97	0.47
1:A:77:ARG:HG2	1:A:156:ASP:OD1	2.17	0.45
4:A:920:HOH:O	1:B:337:ARG:HD3	2.17	0.45
1:B:301:ALA:HB1	1:B:303:GLU:OE1	2.18	0.44
1:A:232:LEU:HD13	1:A:268:GLY:HA2	2.00	0.43
1:A:60:TYR:HE2	1:A:70:THR:HG23	1.84	0.43
1:A:40:LEU:HG	1:A:136:ALA:HB2	2.01	0.42
1:B:27:TYR:OH	2:D:355:ACE:H1	2.19	0.42
1:B:214:PHE:CE1	1:B:339:GLU:HG3	2.55	0.42
1:B:111:ILE:O	1:B:115:THR:HG23	2.20	0.41
1:B:257:LYS:HD3	4:B:1014:HOH:O	2.20	0.41
1:A:277:HIS:HB2	4:A:946:HOH:O	2.20	0.41
1:A:107:LEU:O	1:A:110:ALA:HB3	2.21	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	300/326 (92%)	289 (96%)	11 (4%)	0	100	100
1	B	307/326 (94%)	296 (96%)	10 (3%)	1 (0%)	41	46
2	D	2/4 (50%)	1 (50%)	0	1 (50%)	0	0
2	E	2/4 (50%)	1 (50%)	0	1 (50%)	0	0
All	All	611/660 (93%)	587 (96%)	21 (3%)	3 (0%)	29	31

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	D	356	LEU
1	B	53	ALA
2	E	356	LEU

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	257/269 (96%)	253 (98%)	4 (2%)	62	76
1	B	264/269 (98%)	259 (98%)	5 (2%)	57	71
2	D	2/2 (100%)	1 (50%)	1 (50%)	0	0
2	E	2/2 (100%)	2 (100%)	0	100	100
All	All	525/542 (97%)	515 (98%)	10 (2%)	57	71

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	127	ARG
1	A	128	ASP
1	A	204	PHE
1	A	337	ARG
1	B	133	GLU

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Mol	Chain	Res	Type
1	B	200	THR
1	B	204	PHE
1	B	212	SER
1	B	343	LEU
2	D	356	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	129	GLN
1	A	140	HIS
1	A	306	HIS
1	B	140	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

12 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
1	CSO	B	82	1	3,6,7	0.74	0	0,6,8	0.00	-
1	CSO	A	82	1	3,6,7	0.53	0	0,6,8	0.00	-
1	CSO	B	54	1	3,6,7	0.28	0	0,6,8	0.00	-
1	CSO	B	233	1	3,6,7	0.33	0	0,6,8	0.00	-
2	AR7	D	358	2	10,10,11	1.49	1 (10%)	9,11,13	1.06	1 (11%)
2	AR7	E	358	2	9,9,11	0.34	0	9,10,13	0.79	0
1	CSO	B	191	1	3,6,7	1.06	0	0,6,8	0.00	-
1	CSO	B	98	1	3,6,7	0.63	0	0,6,8	0.00	-
1	CSO	A	98	1	3,6,7	0.63	0	0,6,8	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CSO	A	191	1	3,6,7	0.99	0	0,6,8	0.00	-
1	CSO	A	233	1	3,6,7	0.92	0	0,6,8	0.00	-
1	CSO	A	54	1	3,6,7	0.64	0	0,6,8	0.00	-

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CSO	B	82	1	-	0/1/5/7	-
1	CSO	A	82	1	-	0/1/5/7	-
1	CSO	B	54	1	-	0/1/5/7	-
1	CSO	B	233	1	-	0/1/5/7	-
2	AR7	D	358	2	-	0/9/9/11	-
2	AR7	E	358	2	-	1/7/7/11	-
1	CSO	B	191	1	-	0/1/5/7	-
1	CSO	B	98	1	-	0/1/5/7	-
1	CSO	A	98	1	-	0/1/5/7	-
1	CSO	A	191	1	-	0/1/5/7	-
1	CSO	A	233	1	-	0/1/5/7	-
1	CSO	A	54	1	-	0/1/5/7	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	358	AR7	O-C	-4.61	1.23	1.42

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	358	AR7	O-C-CA	2.54	121.55	111.52

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	E	358	AR7	NE-CD-CG-CB

There are no ring outliers.

2 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	358	AR7	3	0
2	E	358	AR7	4	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 5 ligands modelled in this entry, 5 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	305/326 (93%)	-0.28	6 (1%) 65 63	7, 19, 29, 47	0
1	B	313/326 (96%)	-0.15	4 (1%) 77 75	8, 21, 35, 43	1 (0%)
2	D	2/4 (50%)	0.18	0 100 100	33, 33, 33, 34	0
2	E	2/4 (50%)	1.53	0 100 100	29, 29, 29, 35	0
All	All	622/660 (94%)	-0.21	10 (1%) 72 70	7, 20, 33, 47	1 (0%)

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	70	THR	4.1
1	B	23	ASN	3.2
1	A	23	ASN	2.6
1	B	333	ARG	2.5
1	A	60	TYR	2.4
1	A	71	GLN	2.3
1	B	134	ASN	2.2
1	A	107	LEU	2.2
1	B	107	LEU	2.1
1	A	211	ILE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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	AR7	E	358	10/12	0.80	0.25	30,36,49,49	0
2	AR7	D	358	11/12	0.82	0.18	34,35,43,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
1	CSO	B	82	7/8	0.88	0.10	25,25,26,32	0
1	CSO	A	82	7/8	0.90	0.08	24,25,26,28	0
1	CSO	B	233	7/8	0.92	0.11	20,20,21,22	0
1	CSO	B	98	7/8	0.94	0.13	22,22,23,29	0
1	CSO	A	191	7/8	0.94	0.17	2,7,8,8	0
1	CSO	B	54	7/8	0.95	0.07	14,15,16,19	0
1	CSO	B	191	7/8	0.95	0.11	2,10,10,10	0
1	CSO	A	54	7/8	0.95	0.10	2,16,17,18	0
1	CSO	A	233	7/8	0.97	0.07	4,14,14,14	0
1	CSO	A	98	7/8	0.97	0.14	19,20,21,22	0

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(\AA^2)	Q<0.9
3	CA	A	903	1/1	0.96	0.05	35,35,35,35	0
3	CA	A	901	1/1	0.97	0.09	33,33,33,33	0
3	CA	B	902	1/1	0.98	0.04	34,34,34,34	0
3	CA	A	905	1/1	0.99	0.21	38,38,38,38	0
3	CA	B	904	1/1	0.99	0.05	38,38,38,38	0

6.5 Other polymers [i](#)

There are no such residues in this entry.