



Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 02:00 pm BST

PDB ID : 5M9M
Title : Human angiogenin PD variant Q77P
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Deposited on : 2016-11-01
Resolution : 1.65 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

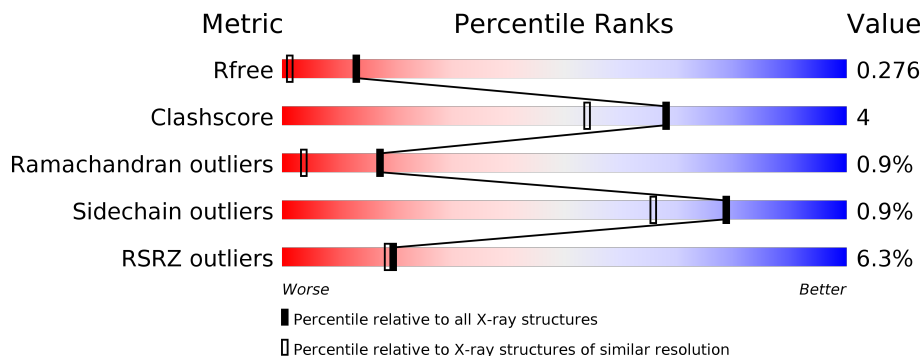
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.65 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	1827 (1.66-1.66)
Clashscore	141614	1931 (1.66-1.66)
Ramachandran outliers	138981	1891 (1.66-1.66)
Sidechain outliers	138945	1891 (1.66-1.66)
RSRZ outliers	127900	1791 (1.66-1.66)

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	124	
1	B	124	
1	C	124	
1	D	124	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	BTB	A	206	-	-	-	X

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 4378 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 Angiogenin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	120	983	608	194	174	7	0	4	0
1	B	121	990	613	193	177	7	0	5	0
1	C	116	955	595	185	168	7	0	4	0
1	D	119	1013	627	200	178	8	0	8	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	initiating methionine	UNP P03950
A	77	PRO	GLN	variant	UNP P03950
B	0	MET	-	initiating methionine	UNP P03950
B	77	PRO	GLN	variant	UNP P03950
C	0	MET	-	initiating methionine	UNP P03950
C	77	PRO	GLN	variant	UNP P03950
D	0	MET	-	initiating methionine	UNP P03950
D	77	PRO	GLN	variant	UNP P03950

- Molecule 2 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



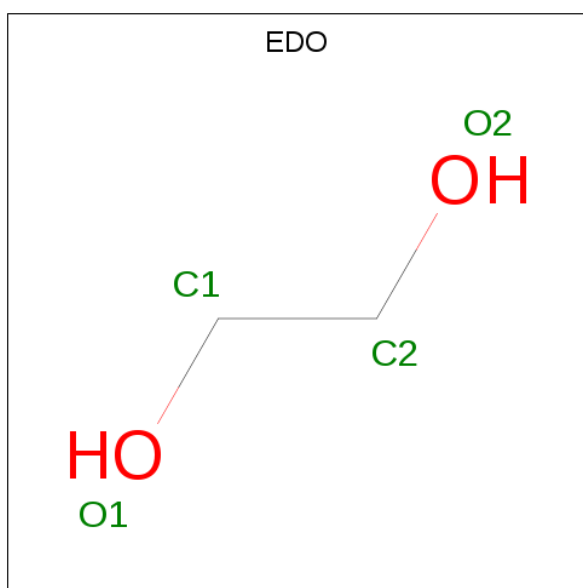
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	O	S		
2	A	1	5	4	1	0	0
2	A	1	5	4	1	0	0
2	B	1	5	4	1	0	0
2	B	1	5	4	1	0	0
2	C	1	5	4	1	0	0
2	C	1	5	4	1	0	0
2	C	1	5	4	1	0	0
2	C	1	5	4	1	0	0
2	D	1	5	4	1	0	0
2	D	1	5	4	1	0	0
2	D	1	5	4	1	0	0
2	D	1	5	4	1	0	0

- Molecule 3 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C₆H₁₄O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			7	4	3		
3	D	1	Total	C	O	0	0
			10	6	4		

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



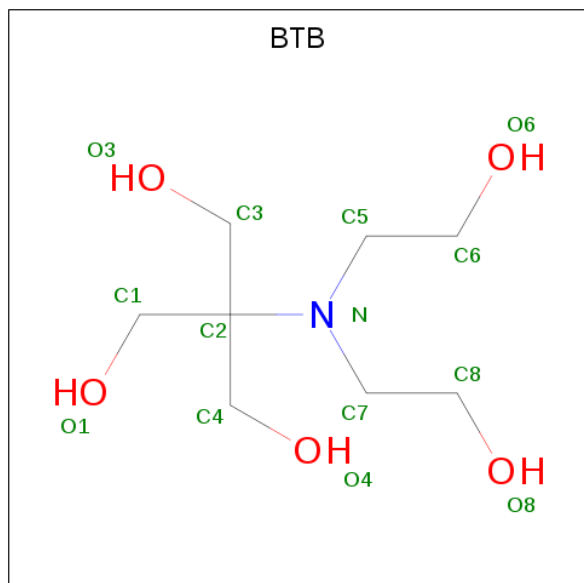
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	C	1	Total	C	O	0	0
			4	2	2		
4	C	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is 2-[BIS-(2-HYDROXY-ETHYL)-AMINO]-2-HYDROXYMETHYL-PROPAN E-1,3-DIOL (three-letter code: BTB) (formula: C₈H₁₉NO₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	89	Total	O	0	0
			89	89		
6	B	74	Total	O	0	0
			74	74		
6	C	91	Total	O	0	0
			91	91		
6	D	76	Total	O	0	0
			76	76		

4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	50.17Å 50.34Å 62.19Å 103.42° 103.59° 110.40°	Depositor
Resolution (Å)	56.75 – 1.65 56.75 – 1.65	Depositor EDS
% Data completeness (in resolution range)	96.6 (56.75-1.65) 96.6 (56.75-1.65)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.99 (at 1.65Å)	Xtrriage
Refinement program	REFMAC 5.8.0155	Depositor
R, R_{free}	0.232 , 0.270 0.238 , 0.276	Depositor DCC
R_{free} test set	2002 reflections (3.31%)	wwPDB-VP
Wilson B-factor (Å ²)	13.5	Xtrriage
Anisotropy	0.598	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 25.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.016 for -k,-h,-l	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	4378	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.89% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

² Theoretical 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: PGE, EDO, SO4, BTB

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	0.61	0/1019	0.84	2/1374 (0.1%)
1	B	0.57	0/1029	0.78	1/1388 (0.1%)
1	C	0.57	0/984	0.78	0/1326
1	D	0.60	0/1053	0.79	0/1418
All	All	0.59	0/4085	0.79	3/5506 (0.1%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	5	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	A	32	ARG	NE-CZ-NH1	5.66	123.13	120.30
1	A	24	ARG	NE-CZ-NH2	5.42	123.01	120.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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	983	0	971	3	0
1	B	990	0	977	3	0
1	C	955	0	939	4	0
1	D	1013	0	1000	20	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	10	0	0	0	0
2	B	10	0	0	0	0
2	C	20	0	0	0	0
2	D	20	0	0	0	0
3	A	7	0	9	0	0
3	D	10	0	14	3	0
4	A	8	0	12	0	0
4	C	8	0	12	0	0
5	A	14	0	19	0	0
6	A	89	0	0	1	0
6	B	74	0	0	0	0
6	C	91	0	0	1	0
6	D	76	0	0	1	0
All	All	4378	0	3953	30	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 (30) 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:D:30[B]:MET:CE	1:D:30[B]:MET:HA	1.71	1.21
1:D:30[B]:MET:HE2	1:D:30[B]:MET:HA	1.38	1.05
1:D:30[B]:MET:HE3	1:D:30[B]:MET:HA	1.44	0.99
1:A:32:ARG:NH2	6:A:301:HOH:O	2.05	0.86
1:D:30[B]:MET:CE	1:D:30[B]:MET:CA	2.54	0.83
1:D:30[B]:MET:HE3	1:D:30[B]:MET:CA	2.17	0.75
1:B:28[A]:SER:OG	1:B:32[A]:ARG:NH2	2.22	0.73
1:D:30[B]:MET:HE1	1:D:35:LEU:HD12	1.71	0.71
1:D:44:THR:OG1	1:D:80[B]:THR:HG22	1.92	0.69
1:D:80[B]:THR:HG21	1:D:120:PHE:HB3	1.77	0.67
1:D:30[B]:MET:CE	1:D:35:LEU:HD12	2.27	0.65
1:D:34:GLY:HA2	3:D:205:PGE:H2	1.83	0.60
1:D:80[B]:THR:HG23	6:D:331:HOH:O	2.02	0.59
1:D:30[B]:MET:HE2	1:D:30[B]:MET:CA	2.22	0.57
1:D:41[B]:ASP:OD1	1:D:42:ILE:HG22	2.07	0.55
1:C:75[B]:SER:HB2	1:C:100[B]:PHE:O	2.08	0.53
1:D:106:ALA:HB3	1:D:114:HIS:HB3	1.92	0.52
1:C:71:ILE:HD13	1:C:104:VAL:HG22	1.91	0.51
1:C:106:ALA:HB3	1:C:114:HIS:HB3	1.94	0.49
1:D:68:ASN:HB3	1:D:69:LEU:HG	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:26:CYS:O	1:D:30[B]:MET:HG2	2.16	0.46
1:D:34:GLY:CA	3:D:205:PGE:H2	2.46	0.45
1:D:34:GLY:HA2	3:D:205:PGE:C2	2.47	0.42
1:C:56[B]:ILE:HD11	1:C:76:PHE:CZ	2.55	0.42
1:D:65[A]:HIS:CD2	1:D:66[A]:ARG:HG3	2.55	0.42
1:B:106:ALA:HB3	1:B:114:HIS:HB3	2.02	0.41
1:A:39:CYS:HB3	1:A:83:LEU:HD13	2.03	0.41
1:D:40[B]:LYS:HG3	1:D:40[B]:LYS:HZ3	1.65	0.41
1:A:101:ARG:NH2	1:A:102[A]:ASN:OD1	2.54	0.40
1:B:5:ARG:HD2	6:C:321:HOH:O	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	122/124 (98%)	118 (97%)	4 (3%)	0	100	100
1	B	124/124 (100%)	121 (98%)	3 (2%)	0	100	100
1	C	116/124 (94%)	111 (96%)	3 (3%)	2 (2%)	9	1
1	D	125/124 (101%)	115 (92%)	6 (5%)	4 (3%)	4	0
All	All	487/496 (98%)	465 (96%)	16 (3%)	6 (1%)	17	2

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	101[A]	ARG
1	C	101[B]	ARG
1	D	66[A]	ARG
1	D	66[B]	ARG
1	D	68	ASN

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Mol	Chain	Res	Type
1	D	60	LYS

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	111/111 (100%)	109 (98%)	2 (2%)	59	36
1	B	112/111 (101%)	112 (100%)	0	100	100
1	C	107/111 (96%)	107 (100%)	0	100	100
1	D	114/111 (103%)	111 (97%)	3 (3%)	46	21
All	All	444/444 (100%)	439 (99%)	5 (1%)	78	57

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	10	LEU
1	A	29	ILE
1	D	66[A]	ARG
1	D	66[B]	ARG
1	D	68	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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](#)

19 ligands 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
2	SO4	B	201	-	4,4,4	0.33	0	6,6,6	0.13	0
2	SO4	A	201	-	4,4,4	0.39	0	6,6,6	0.39	0
2	SO4	D	201	-	4,4,4	0.26	0	6,6,6	0.46	0
3	PGE	D	205	-	9,9,9	0.45	0	8,8,8	0.63	0
2	SO4	C	202	-	4,4,4	0.31	0	6,6,6	0.08	0
4	EDO	C	205	-	3,3,3	0.41	0	2,2,2	0.33	0
2	SO4	A	202	-	4,4,4	0.35	0	6,6,6	0.15	0
2	SO4	D	204	-	4,4,4	0.29	0	6,6,6	0.09	0
2	SO4	C	201	-	4,4,4	0.29	0	6,6,6	0.15	0
4	EDO	A	204	-	3,3,3	0.44	0	2,2,2	0.27	0
4	EDO	A	205	-	3,3,3	0.50	0	2,2,2	0.24	0
2	SO4	C	203	-	4,4,4	0.37	0	6,6,6	0.37	0
4	EDO	C	206	-	3,3,3	0.46	0	2,2,2	0.20	0
2	SO4	D	203	-	4,4,4	0.39	0	6,6,6	0.33	0
2	SO4	D	202	-	4,4,4	0.49	0	6,6,6	0.31	0
3	PGE	A	203	-	6,6,9	0.51	0	5,5,8	0.61	0
5	BTB	A	206	-	13,13,13	1.06	1 (7%)	7,16,16	0.89	0
2	SO4	C	204	-	4,4,4	0.36	0	6,6,6	0.17	0
2	SO4	B	202	-	4,4,4	0.35	0	6,6,6	0.10	0

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
4	EDO	A	204	-	-	1/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PGE	D	205	-	-	6/7/7/7	-
4	EDO	C	205	-	-	1/1/1/1	-
4	EDO	A	205	-	-	1/1/1/1	-
4	EDO	C	206	-	-	0/1/1/1	-
3	PGE	A	203	-	-	2/4/4/7	-
5	BTB	A	206	-	-	10/21/21/21	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	206	BTB	C2-N	2.31	1.53	1.48

There are no bond angle outliers.

There are no chirality outliers.

All (21) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	206	BTB	C1-C2-C4-O4
5	A	206	BTB	C3-C2-C4-O4
5	A	206	BTB	N-C2-C4-O4
5	A	206	BTB	C1-C2-N-C5
5	A	206	BTB	C3-C2-N-C5
5	A	206	BTB	C4-C2-N-C5
5	A	206	BTB	N-C5-C6-O6
3	D	205	PGE	O2-C3-C4-O3
3	D	205	PGE	O3-C5-C6-O4
4	A	204	EDO	O1-C1-C2-O2
3	D	205	PGE	O1-C1-C2-O2
3	A	203	PGE	O2-C3-C4-O3
3	D	205	PGE	C4-C3-O2-C2
3	D	205	PGE	C6-C5-O3-C4
3	A	203	PGE	C4-C3-O2-C2
3	D	205	PGE	C1-C2-O2-C3
5	A	206	BTB	C8-C7-N-C2
5	A	206	BTB	C1-C2-N-C7
5	A	206	BTB	C4-C2-N-C7
4	A	205	EDO	O1-C1-C2-O2
4	C	205	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	205	PGE	3	0

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	120/124 (96%)	0.45	4 (3%) 46 47	10, 18, 31, 48	0
1	B	121/124 (97%)	0.72	7 (5%) 23 22	12, 20, 40, 49	0
1	C	116/124 (93%)	0.70	9 (7%) 13 12	11, 20, 39, 46	0
1	D	119/124 (95%)	0.75	10 (8%) 11 10	9, 20, 52, 62	0
All	All	476/496 (95%)	0.65	30 (6%) 20 19	9, 19, 42, 62	0

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	86	GLY	6.5
1	C	85	GLY	5.4
1	B	86	GLY	5.1
1	D	59	ASN	5.0
1	D	67[A]	GLU	4.7
1	D	68	ASN	4.3
1	B	58	GLU	4.2
1	D	66[A]	ARG	4.1
1	C	86	GLY	4.0
1	B	60	LYS	3.9
1	A	3	ASN	3.4
1	A	121	ARG	3.3
1	C	24	ARG	3.2
1	C	103	VAL	3.1
1	C	60	LYS	3.0
1	D	60	LYS	3.0
1	D	64	PRO	2.9
1	B	85	GLY	2.8
1	D	121	ARG	2.7
1	C	69	LEU	2.7
1	A	86	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	59	ASN	2.5
1	C	84	HIS	2.5
1	C	53	ILE	2.4
1	D	61	ASN	2.4
1	C	104	VAL	2.2
1	A	109	ASN	2.2
1	D	85	GLY	2.2
1	B	3	ASN	2.1
1	B	9	PHE	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
5	BTB	A	206	14/14	0.55	0.42	58,69,75,75	0
3	PGE	A	203	7/10	0.67	0.33	38,41,47,48	0
4	EDO	A	204	4/4	0.73	0.21	54,56,57,60	0
2	SO4	B	201	5/5	0.78	0.18	53,56,58,59	0
2	SO4	B	202	5/5	0.78	0.20	74,75,77,77	0
4	EDO	C	206	4/4	0.78	0.15	46,49,50,50	0
2	SO4	A	202	5/5	0.81	0.17	59,62,64,66	0
3	PGE	D	205	10/10	0.82	0.38	32,40,45,50	0
4	EDO	A	205	4/4	0.82	0.17	35,37,37,40	0
2	SO4	A	201	5/5	0.82	0.26	46,47,49,52	0
4	EDO	C	205	4/4	0.85	0.14	37,39,39,41	0
2	SO4	D	202	5/5	0.85	0.23	38,41,43,45	0
2	SO4	C	204	5/5	0.85	0.13	76,78,78,80	0
2	SO4	C	201	5/5	0.87	0.20	59,63,63,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	SO4	C	202	5/5	0.89	0.14	64,64,65,66	0
2	SO4	C	203	5/5	0.90	0.13	44,48,48,53	0
2	SO4	D	203	5/5	0.91	0.20	42,43,46,48	0
2	SO4	D	204	5/5	0.93	0.17	39,42,43,44	0
2	SO4	D	201	5/5	0.98	0.06	23,23,24,25	0

6.5 Other polymers [i](#)

There are no such residues in this entry.