



Full wwPDB X-ray Structure Validation Report

Feb 27, 2014 – 12:57 PM GMT

PDB ID : 4BE0
Title : PFV intasome with inhibitor XZ-115
Authors : Hare, S.; Cherepanov, P.
Deposited on : 2012-10-08
Resolution : 2.68 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

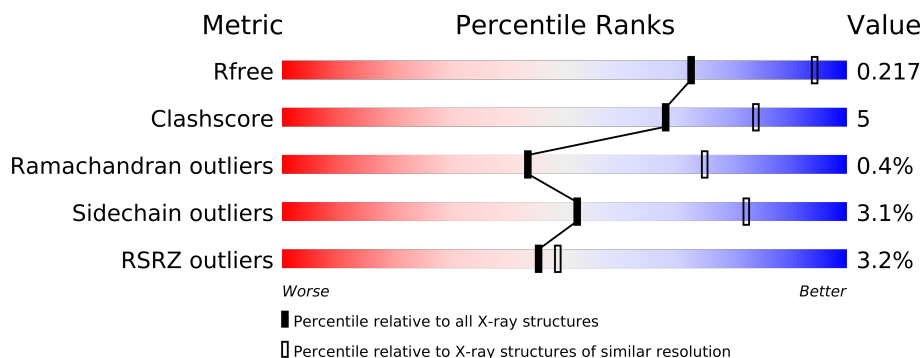
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.68 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}	66092	2010 (2.70-2.66)
Clashscore	79885	2450 (2.70-2.66)
Ramachandran outliers	78287	2410 (2.70-2.66)
Sidechain outliers	78261	2410 (2.70-2.66)
RSRZ outliers	66119	2013 (2.70-2.66)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	395	
1	B	395	
2	C	19	
3	D	17	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
5	SO4	A	1383	-	X
6	GOL	A	1377	-	X
6	GOL	A	1379	-	X
6	GOL	A	1384	-	X
6	GOL	B	1301	-	X

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 5372 atoms, of which 0 are hydrogen and 0 are deuterium.

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 PFV INTEGRASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	368	Total	C	N	O	S	0	0	0
			2920	1872	512	532	4			
1	B	184	Total	C	N	O	S	0	0	0
			1423	922	233	267	1			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	EXPRESSION TAG	UNP P14350
A	-1	PRO	-	EXPRESSION TAG	UNP P14350
A	0	GLY	-	EXPRESSION TAG	UNP P14350
A	217	SER	GLY	VARIANT	UNP P14350
A	218	GLY	SER	VARIANT	UNP P14350
B	-2	GLY	-	EXPRESSION TAG	UNP P14350
B	-1	PRO	-	EXPRESSION TAG	UNP P14350
B	0	GLY	-	EXPRESSION TAG	UNP P14350
B	217	SER	GLY	VARIANT	UNP P14350
B	218	GLY	SER	VARIANT	UNP P14350

- Molecule 2 is a DNA chain called 19 NUCLEOTIDE PREPROCESSED PFV DONOR DNA (NON-TRANSFERRED STRAND).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	19	Total	C	N	O	P	0	0	0
			387	187	68	114	18			

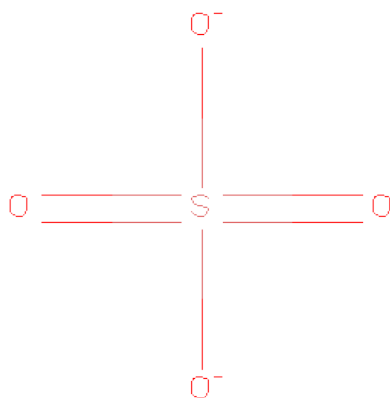
- Molecule 3 is a DNA chain called 17 NUCLEOTIDE PREPROCESSED PFV DONOR DNA (TRANSFERRED STRAND).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	17	Total	C	N	O	P	0	0	0
			345	166	65	98	16			

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



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

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).

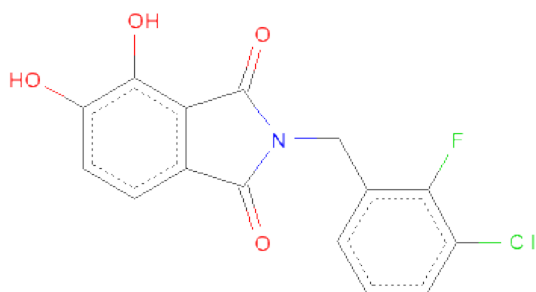


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			6	3	3		
6	A	1	Total	C	O	0	0
			6	3	3		
6	A	1	Total	C	O	0	0
			6	3	3		
6	A	1	Total	C	O	0	0
			6	3	3		
6	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 7 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	2	Total	Mg	0	0
			2	2		

- Molecule 8 is 2-(3-CHLORO-2-FLUOROBENZYL)-4,5-DIHYDROXY-1H-ISOINDOLE-1,3 (2H)-DIONE (three-letter code: BF3) (formula: C₁₅H₉ClFNO₄).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
8	A	1	Total	C	Cl	F	N	O	0	0
			22	15	1	1	1	4		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	155	Total	O	0	0
			155	155		
9	B	31	Total	O	0	0
			31	31		
9	C	26	Total	O	0	0
			26	26		
9	D	15	Total	O	0	0
			15	15		

- Molecule 3: 17 NUCLEOTIDE PREPROCESSED PFV DONOR DNA (TRANSFERRED STRAND)

Chain D: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	160.12Å 160.12Å 124.05Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.22 – 2.68 39.22 – 2.68	Depositor EDS
% Data completeness (in resolution range)	98.7 (39.22-2.68) 98.8 (39.22-2.68)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.02 (at 2.69Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.183 , 0.218 0.183 , 0.217	Depositor DCC
R_{free} test set	2282 reflections (5.31%)	DCC
Wilson B-factor (Å ²)	63.9	Xtriage
Anisotropy	0.203	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 41.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 45308 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5372	wwPDB-VP
Average B, all atoms (Å ²)	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.55% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: BF3, GOL, MG, ZN, SO4

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	0.65	1/2999 (0.0%)	0.74	1/4094 (0.0%)
1	B	0.66	2/1463 (0.1%)	0.71	0/2003
2	C	0.54	0/433	1.09	3/667 (0.4%)
3	D	0.49	0/387	1.04	2/595 (0.3%)
All	All	0.63	3/5282 (0.1%)	0.80	6/7359 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	154	TRP	CD2-CE2	5.89	1.48	1.41
1	A	81	TRP	CD2-CE2	5.09	1.47	1.41
1	B	242	TRP	CD2-CE2	5.01	1.47	1.41

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1	DT	P-O3'-C3'	7.94	129.22	119.70
2	C	1	DA	P-O3'-C3'	7.35	128.52	119.70
2	C	11	DA	P-O3'-C3'	6.47	127.47	119.70
3	D	7	DA	O3'-P-O5'	-5.99	92.62	104.00
1	A	69	ARG	NE-CZ-NH2	-5.49	117.56	120.30
2	C	2	DT	P-O3'-C3'	5.43	126.21	119.70

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2920	0	2945	34	0
1	B	1423	0	1384	12	0
2	C	387	0	218	5	0
3	D	345	0	193	1	0
4	A	1	0	0	0	0
5	A	10	0	0	1	0
5	B	5	0	0	1	0
6	A	24	0	32	3	0
6	B	6	0	8	1	0
7	A	2	0	0	0	0
8	A	22	0	7	0	0
9	A	155	0	0	5	0
9	B	31	0	0	0	0
9	C	26	0	0	0	0
9	D	15	0	0	0	0
All	All	5372	0	4787	49	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 5.

All (49) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:137:GLN:H	6:A:1378:GOL:H2	1.35	0.89
1:B:258:SER:O	1:B:261:LEU:O	1.98	0.80
1:A:137:GLN:N	6:A:1378:GOL:H2	2.03	0.73
1:A:219:LYS:HE3	2:C:6:DC:OP1	1.92	0.70
1:B:264:THR:OG1	1:B:267:GLN:HG3	1.98	0.63
1:A:162:SER:HB2	6:A:1377:GOL:H2	1.85	0.59
3:D:17:DA:N3	3:D:17:DA:H5"	2.16	0.58
1:A:69:ARG:HD2	1:A:70:GLU:OE2	2.04	0.58
1:A:161:PRO:O	1:A:189:ALA:HB2	2.06	0.55
1:A:156:TYR:OH	1:A:173:LEU:HB2	2.07	0.55
1:A:19:HIS:HD2	9:A:2001:HOH:O	1.89	0.54
1:A:315:TRP:CE2	1:A:371:PRO:HD3	2.42	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:14:GLN:HG3	1:A:21:ILE:HD11	1.90	0.54
1:A:111:PRO:O	1:A:350:ARG:HD3	2.08	0.54
2:C:1:DA:H2''	2:C:2:DT:H5'	1.89	0.53
1:B:212:TYR:O	1:B:214:PRO:HD3	2.09	0.53
1:B:283:THR:C	1:B:285:ASP:H	2.14	0.51
1:B:127:ILE:HA	1:B:144:VAL:O	2.11	0.50
1:A:82:TRP:HB2	1:A:83:PRO:HD2	1.94	0.50
1:A:108:ALA:O	1:A:314:SER:HA	2.13	0.49
1:A:81:TRP:CE3	1:A:82:TRP:HA	2.48	0.49
1:A:219:LYS:NZ	9:A:2082:HOH:O	2.46	0.48
1:A:9:ASP:O	1:A:13:ASP:HB2	2.13	0.48
1:A:97:GLN:OE1	1:A:339:LYS:HG2	2.14	0.47
1:A:325:GLU:HA	1:A:369:LEU:HD23	1.96	0.47
1:A:246:LEU:HB2	1:A:247:PRO:HD3	1.97	0.46
1:A:115:PRO:HG3	2:C:3:DT:C2	2.51	0.46
1:B:222:ARG:NE	5:B:1300:SO4:O4	2.46	0.46
1:A:73:LEU:HD22	1:A:86:ARG:CZ	2.46	0.45
1:A:357:HIS:HD2	9:A:2134:HOH:O	2.00	0.45
1:B:216:SER:HB2	1:B:217:SER:H	1.52	0.45
1:A:221:GLU:O	1:A:224:ASN:HB2	2.18	0.44
1:A:135:PRO:HG3	1:A:140:LEU:HD21	1.99	0.44
1:A:122:PHE:O	1:A:179:PRO:HA	2.17	0.44
1:A:295:LEU:HD21	1:A:299:ARG:NH2	2.32	0.43
1:A:357:HIS:HB2	5:A:1376:SO4:O4	2.18	0.43
1:A:222:ARG:HD3	2:C:5:DT:O2	2.19	0.43
1:A:357:HIS:CD2	9:A:2134:HOH:O	2.72	0.42
1:A:73:LEU:O	1:A:73:LEU:HG	2.18	0.42
1:A:221:GLU:OE1	1:A:221:GLU:HA	2.19	0.42
1:A:348:ASN:HB2	1:A:349:PRO:CD	2.49	0.42
2:C:10:DG:H2''	2:C:11:DA:C8	2.54	0.42
1:A:98:GLN:OE1	9:A:2022:HOH:O	2.21	0.42
1:B:267:GLN:HB3	6:B:1301:GOL:H31	2.02	0.41
1:A:337:TRP:CG	1:A:370:LYS:HE2	2.56	0.41
1:B:223:LYS:HA	1:B:223:LYS:HD3	1.88	0.41
1:B:258:SER:HA	1:B:259:PRO:HD2	1.93	0.41
1:B:212:TYR:C	1:B:214:PRO:HD3	2.41	0.41
1:B:161:PRO:O	1:B:189:ALA:HB2	2.22	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	366/395 (93%)	346 (94%)	18 (5%)	2 (0%)	38	69
1	B	182/395 (46%)	170 (93%)	12 (7%)	0	100	100
All	All	548/790 (69%)	516 (94%)	30 (6%)	2 (0%)	43	75

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	201	GLU
1	A	14	GLN

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	327/354 (92%)	320 (98%)	7 (2%)	66	90
1	B	154/354 (44%)	146 (95%)	8 (5%)	32	61
All	All	481/708 (68%)	466 (97%)	15 (3%)	52	82

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	51	GLN
1	A	149	MET
1	A	307	THR
1	A	356	ASP
1	A	360	ASN
1	A	364	VAL
1	A	366	ILE

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Mol	Chain	Res	Type
1	B	117	ARG
1	B	164	SER
1	B	235	LEU
1	B	274	SER
1	B	277	PRO
1	B	282	ASP
1	B	286	LEU
1	B	288	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	17	GLN

5.3.3 RNA ⓘ

There are no RNA chains 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 ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 12 ligands modelled in this entry, 3 are monoatomic - leaving 9 for Mogul analysis.

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
5	SO4	A	1376	-	4,4,4	0.54	0	6,6,6	0.20	0
6	GOL	A	1377	-	5,5,5	0.32	0	5,5,5	0.65	0
6	GOL	A	1378	-	5,5,5	0.51	0	5,5,5	1.21	1 (20%)
6	GOL	A	1379	-	5,5,5	0.30	0	5,5,5	0.47	0
8	BF3	A	1382	7	24,24,24	2.19	4 (16%)	36,36,36	2.09	12 (33%)
5	SO4	A	1383	-	4,4,4	0.74	0	6,6,6	0.21	0
6	GOL	A	1384	-	5,5,5	0.32	0	5,5,5	0.44	0
5	SO4	B	1300	-	4,4,4	0.47	0	6,6,6	0.16	0
6	GOL	B	1301	-	5,5,5	0.37	0	5,5,5	0.21	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
5	SO4	A	1376	-	-	0/0/0/0	0/0/0/0
6	GOL	A	1377	-	-	0/4/4/4	0/0/0/0
6	GOL	A	1378	-	-	0/4/4/4	0/0/0/0
6	GOL	A	1379	-	-	0/4/4/4	0/0/0/0
8	BF3	A	1382	7	-	0/4/20/20	0/1/3/3
5	SO4	A	1383	-	-	0/0/0/0	0/0/0/0
6	GOL	A	1384	-	-	0/4/4/4	0/0/0/0
5	SO4	B	1300	-	-	0/0/0/0	0/0/0/0
6	GOL	B	1301	-	-	0/4/4/4	0/0/0/0

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	A	1382	BF3	CAU-CAS	-6.06	1.39	1.49
8	A	1382	BF3	CAT-CAR	-5.45	1.40	1.48
8	A	1382	BF3	CAR-NAV	-4.38	1.33	1.39
8	A	1382	BF3	CAS-NAV	-4.38	1.33	1.39

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	A	1382	BF3	CAT-CAR-NAV	5.13	109.62	105.88
8	A	1382	BF3	CAU-CAS-NAV	5.04	108.81	105.70
8	A	1382	BF3	CAP-CAO-CLA	-4.64	116.64	119.92
8	A	1382	BF3	CAJ-CAQ-CAP	4.22	119.46	116.42
8	A	1382	BF3	CAS-NAV-CAR	-3.10	109.31	111.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	A	1382	BF3	OAB-CAS-CAU	-2.73	125.42	128.89
8	A	1382	BF3	CAK-CAT-CAR	2.68	133.82	129.67
8	A	1382	BF3	CAU-CAT-CAR	-2.55	105.32	108.28
6	A	1378	GOL	O3-C3-C2	-2.23	98.85	109.71
8	A	1382	BF3	FAE-CAP-CAQ	2.20	119.80	117.73
8	A	1382	BF3	CAH-CAO-CLA	2.09	123.01	118.37
8	A	1382	BF3	CAN-CAU-CAS	2.07	133.16	129.65
8	A	1382	BF3	CAH-CAO-CAP	2.04	120.34	118.88

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

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	368/395 (93%)	-0.18	9 (2%) 56 60	38, 52, 95, 135	0
1	B	184/395 (46%)	-0.14	10 (5%) 25 26	40, 61, 138, 167	0
2	C	19/19 (100%)	-0.41	0 100 100	43, 56, 85, 114	0
3	D	17/17 (100%)	-0.48	0 100 100	43, 50, 110, 112	0
All	All	588/826 (71%)	-0.18	19 (3%) 45 49	38, 54, 113, 167	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	296	GLN	4.3
1	A	17	GLN	3.7
1	B	279	ALA	3.6
1	B	280	ASN	3.5
1	A	8	LEU	3.5
1	B	292	LEU	2.8
1	A	9	ASP	2.8
1	B	295	LEU	2.7
1	B	293	SER	2.5
1	B	288	ARG	2.3
1	A	19	HIS	2.3
1	A	15	LEU	2.2
1	A	16	LEU	2.2
1	A	29	THR	2.2
1	B	298	ILE	2.1
1	A	21	ILE	2.1
1	A	10	ALA	2.1
1	B	297	GLU	2.0
1	B	116	ASP	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 ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	RSR	LLDF	B-factors(Å ²)	Q<0.9
6	GOL	A	1384	6/6	0.25	33.81	69,92,94,104	0
5	SO4	A	1383	5/5	0.32	10.61	59,65,74,75	5
6	GOL	A	1379	6/6	0.26	9.00	84,90,93,94	0
6	GOL	B	1301	6/6	0.35	5.29	61,70,75,86	0
6	GOL	A	1377	6/6	0.19	2.08	69,81,93,96	0
6	GOL	A	1378	6/6	0.15	-0.13	61,66,82,94	0
5	SO4	B	1300	5/5	0.15	-0.29	87,92,96,101	0
8	BF3	A	1382	22/22	0.12	-0.58	38,48,52,52	0
5	SO4	A	1376	5/5	0.14	-0.85	85,91,93,94	0
4	ZN	A	393	1/1	0.12	-1.10	46,46,46,46	0
7	MG	A	1381	1/1	0.08	-1.32	44,44,44,44	0
7	MG	A	1380	1/1	0.05	-2.14	40,40,40,40	0

6.5 Other polymers ⓘ

There are no such residues in this entry.