



Full wwPDB X-ray Structure Validation Report

Mar 1, 2014 – 03:28 AM GMT

PDB ID : 4GOV
Title : The crystal structure of human fascin 1 S39D mutant
Authors : Yang, S.Y.; Huang, F.K.; Huang, J.; Chen, S.; Jakoncic, J.; Leo-Macias, A.;
Diaz-Avalos, R.; Chen, L.; Zhang, J.J.; Huang, X.Y.
Deposited on : 2012-08-20
Resolution : 2.20 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>

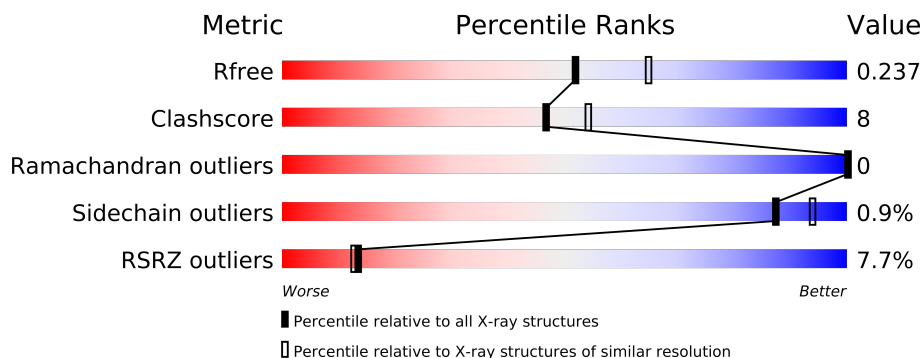
The following versions of software and data (see [references](#)) were used in the production of this report:

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 2.20 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}	66092	2938 (2.20-2.20)
Clashscore	79885	3751 (2.20-2.20)
Ramachandran outliers	78287	3681 (2.20-2.20)
Sidechain outliers	78261	3682 (2.20-2.20)
RSRZ outliers	66119	2939 (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. 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	493	
1	B	493	

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

Mol	Type	Chain	Res	Geometry	Electron density
3	CL	A	506	-	X
3	CL	B	507	-	X
4	GOL	A	510	-	X
4	GOL	B	519	-	X

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 8114 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 Fascin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	470	Total	C	N	O	S	0	1	0
			3675	2301	651	708	15			
1	B	483	Total	C	N	O	S	0	4	0
			3791	2371	676	727	17			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	39	ASP	SER	ENGINEERED MUTATION	UNP Q16658
B	39	ASP	SER	ENGINEERED MUTATION	UNP Q16658

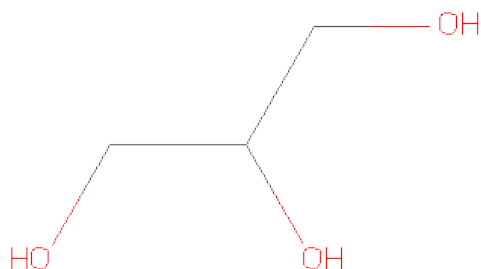
- Molecule 2 is BROMIDE ION (three-letter code: BR) (formula: Br).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	4	Total	Br	0	0
			4	4		
2	A	2	Total	Br	0	0
			2	2		

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

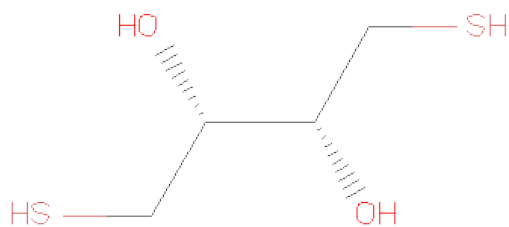
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	8	Total	Cl	0	0
			8	8		
3	A	5	Total	Cl	0	0
			5	5		

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

- Molecule 5 is 2,3-DIHYDROXY-1,4-DITHIOBUTANE (three-letter code: DTT) (formula: $C_4H_{10}O_2S_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	O	S	0	0
			8	4	2	2		

- Molecule 6 is water.

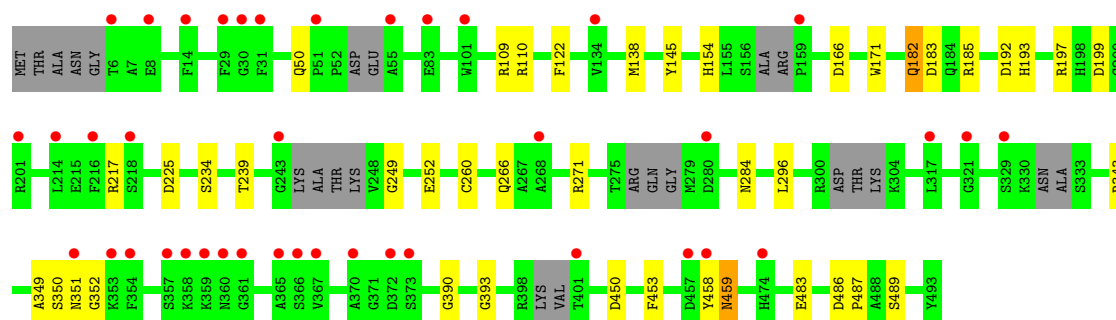
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	288	Total	O	0	0
			288	288		
6	B	273	Total	O	0	0
			273	273		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

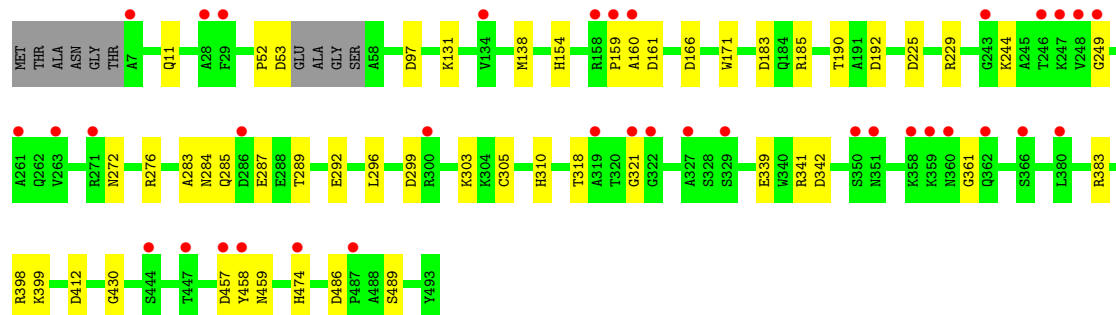
• Molecule 1: Fascin

Chain A: 



• Molecule 1: Fascin

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	161.25Å 70.72Å 111.06Å 90.00° 130.68° 90.00°	Depositor
Resolution (Å)	30.00 – 2.20 29.24 – 2.19	Depositor EDS
% Data completeness (in resolution range)	99.0 (30.00-2.20) 99.1 (29.24-2.19)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.81 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.196 , 0.234 0.200 , 0.237	Depositor DCC
R_{free} test set	2438 reflections (5.32%)	DCC
Wilson B-factor (Å ²)	36.1	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 67.5	EDS
Estimated twinning fraction	0.026 for -h-2*1,-k,l	Xtriage
L-test for twinning	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.30$	Xtriage
Outliers	0 of 48263 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8114	wwPDB-VP
Average B, all atoms (Å ²)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.76% 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: GOL, CL, BR, DTT

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	0.46	0/3752	0.53	0/5066
1	B	0.45	0/3883	0.55	0/5249
All	All	0.45	0/7635	0.54	0/10315

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
1	A	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	182	GLN	Peptide

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	3675	0	0	29	0
1	B	3791	0	0	33	0
2	A	2	0	0	0	0
2	B	4	0	0	0	0
3	A	5	0	0	0	0
3	B	8	0	0	1	0
4	A	18	0	24	2	0
4	B	42	0	56	8	0
5	A	8	0	10	1	0
6	A	288	0	0	5	0
6	B	273	0	0	1	0
All	All	8114	0	90	62	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 8.

All (62) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:260[B]:CYS:SG	1:A:458:TYR:OH	2.38	0.80
1:A:458:TYR:CG	1:A:459:ASN:N	2.57	0.72
1:B:160:ALA:CB	1:B:161:ASP:CG	2.64	0.66
1:B:159:PRO:C	1:B:160:ALA:O	2.34	0.62
1:A:183:ASP:N	1:A:183:ASP:OD1	2.32	0.61
1:B:399:LYS:N	4:B:518:GOL:H32	2.16	0.61
1:A:453:PHE:N	4:A:508:GOL:HO1	1.99	0.60
1:A:217:ARG:NE	5:A:511:DTT:S4	2.76	0.59
1:A:197:ARG:NH2	1:A:199:ASP:OD2	2.37	0.58
4:B:513:GOL:H31	6:B:863:HOH:O	2.03	0.58
1:B:160:ALA:CB	1:B:161:ASP:OD1	2.53	0.56
1:B:383:ARG:N	4:B:514:GOL:HO1	2.04	0.56
1:A:458:TYR:CD1	1:A:459:ASN:N	2.74	0.55
1:B:318:THR:O	1:B:321:GLY:N	2.41	0.54
1:A:182:GLN:O	1:A:185:ARG:N	2.41	0.54
1:B:339:GLU:OE1	1:B:341:ARG:NH1	2.41	0.54
1:B:398:ARG:CG	4:B:518:GOL:H11	2.37	0.53
1:A:154:HIS:NE2	1:A:166:ASP:OD1	2.42	0.53
1:B:154:HIS:NE2	1:B:166:ASP:OD1	2.42	0.52
1:A:260[B]:CYS:SG	1:A:296:LEU:O	2.68	0.52
1:A:459:ASN:ND2	6:A:706:HOH:O	2.42	0.51
1:B:284:ASN:OD1	1:B:285:GLN:CG	2.59	0.51
1:B:430:GLY:CA	4:B:515:GOL:H11	2.41	0.51
1:A:271:ARG:CZ	1:A:284:ASN:O	2.61	0.49
1:B:399:LYS:N	4:B:518:GOL:HO2	2.11	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:159:PRO:CG	1:B:159:PRO:O	2.59	0.48
1:B:190:THR:OG1	1:B:192:ASP:OD1	2.32	0.48
1:A:145:TYR:CE2	4:A:510:GOL:H31	2.49	0.48
1:A:266:GLN:NE2	6:A:884:HOH:O	2.46	0.47
1:B:299:ASP:O	1:B:303:LYS:N	2.49	0.46
1:A:350:SER:CB	6:A:861:HOH:O	2.64	0.46
1:B:11:GLN:N	4:B:517:GOL:HO2	2.13	0.46
1:B:289:THR:OG1	1:B:292:GLU:OE1	2.34	0.45
1:A:234:SER:N	1:A:239:THR:O	2.49	0.45
1:B:283:ALA:N	1:B:361:GLY:O	2.50	0.45
1:B:296:LEU:CD1	1:B:305[B]:CYS:SG	3.06	0.44
1:A:483:GLU:OE1	1:B:474:HIS:CD2	2.71	0.44
1:A:351:ASN:OD1	1:A:352:GLY:N	2.51	0.43
1:A:486:ASP:CB	1:A:487:PRO:CD	2.96	0.43
1:B:52:PRO:O	1:B:53:ASP:CB	2.66	0.43
1:A:249:GLY:N	1:A:252:GLU:OE1	2.51	0.43
1:A:486:ASP:N	1:A:489:SER:OG	2.51	0.43
1:B:486:ASP:N	1:B:489:SER:OG	2.51	0.43
1:B:131:LYS:NZ	3:B:506:CL:CL	2.89	0.43
1:B:159:PRO:O	1:B:160:ALA:C	2.58	0.42
1:A:110:ARG:NH1	1:A:122:PHE:O	2.52	0.42
1:B:459:ASN:N	1:B:459:ASN:OD1	2.49	0.42
1:B:276:ARG:NH2	1:B:287:GLU:OE1	2.53	0.42
1:A:390:GLY:N	1:A:393:GLY:O	2.53	0.42
1:B:225:ASP:OD2	1:B:229:ARG:NH2	2.52	0.41
1:A:349:ALA:O	1:A:352:GLY:N	2.53	0.41
1:A:109:ARG:NH2	6:A:663:HOH:O	2.53	0.41
1:B:272:ASN:N	1:B:285:GLN:O	2.54	0.41
1:B:244:LYS:NZ	1:B:249:GLY:O	2.54	0.41
1:B:342:ASP:O	4:B:513:GOL:H12	2.20	0.41
1:B:97:ASP:O	1:B:185:ARG:NH2	2.54	0.41
1:A:192:ASP:O	1:A:193:HIS:CB	2.69	0.41
1:A:343:ARG:NH2	1:A:450:ASP:OD2	2.53	0.41
1:A:50:GLN:NE2	6:A:821:HOH:O	2.54	0.40
1:A:225:ASP:C	1:A:225:ASP:OD1	2.60	0.40
1:B:457:ASP:CG	1:B:458:TYR:N	2.75	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	455/493 (92%)	441 (97%)	14 (3%)	0	100	100
1	B	483/493 (98%)	467 (97%)	16 (3%)	0	100	100
All	All	938/986 (95%)	908 (97%)	30 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	388/404 (96%)	385 (99%)	3 (1%)	89	95
1	B	401/404 (99%)	397 (99%)	4 (1%)	85	93
All	All	789/808 (98%)	782 (99%)	7 (1%)	87	94

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	138	MET
1	A	171	TRP
1	A	459	ASN
1	B	138	MET
1	B	171	TRP
1	B	183	ASP
1	B	310	HIS

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

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 30 ligands modelled in this entry, 19 are monoatomic - leaving 11 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	$\# Z > 2$
4	GOL	A	508	-	5,5,5	0.10	0	5,5,5	0.49	0
4	GOL	A	509	-	5,5,5	0.24	0	5,5,5	0.08	0
4	GOL	A	510	-	5,5,5	0.18	0	5,5,5	0.30	0
5	DTT	A	511	-	7,7,7	0.34	0	8,8,8	2.86	3 (37%)
4	GOL	B	513	-	5,5,5	0.19	0	5,5,5	0.50	0
4	GOL	B	514	-	5,5,5	0.20	0	5,5,5	0.20	0
4	GOL	B	515	-	5,5,5	0.20	0	5,5,5	0.40	0
4	GOL	B	516	-	5,5,5	0.23	0	5,5,5	0.36	0
4	GOL	B	517	-	5,5,5	0.22	0	5,5,5	0.39	0
4	GOL	B	518	-	5,5,5	0.33	0	5,5,5	0.63	0
4	GOL	B	519	-	5,5,5	0.19	0	5,5,5	0.34	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	GOL	A	508	-	-	0/4/4/4	0/0/0/0
4	GOL	A	509	-	-	0/4/4/4	0/0/0/0
4	GOL	A	510	-	-	0/4/4/4	0/0/0/0
5	DTT	A	511	-	-	0/8/8/8	0/0/0/0
4	GOL	B	513	-	-	0/4/4/4	0/0/0/0
4	GOL	B	514	-	-	0/4/4/4	0/0/0/0
4	GOL	B	515	-	-	0/4/4/4	0/0/0/0
4	GOL	B	516	-	-	0/4/4/4	0/0/0/0
4	GOL	B	517	-	-	0/4/4/4	0/0/0/0
4	GOL	B	518	-	-	0/4/4/4	0/0/0/0
4	GOL	B	519	-	-	0/4/4/4	0/0/0/0

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	511	DTT	C3-C4-S4	-6.69	104.12	114.66
5	A	511	DTT	O3-C3-C4	-3.13	103.97	109.87
5	A	511	DTT	C1-C2-C3	-2.47	107.42	113.07

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	470/493 (95%)	0.49	40 (8%)	11 10	31, 48, 78, 98	1 (0%)
1	B	483/493 (97%)	0.40	36 (7%)	14 13	30, 47, 74, 88	0
All	All	953/986 (96%)	0.45	76 (7%)	13 11	30, 48, 76, 98	1 (0%)

All (76) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	6	THR	6.2
1	A	373	SER	5.3
1	A	359	LYS	5.1
1	A	321	GLY	5.0
1	B	160	ALA	4.9
1	B	321	GLY	4.7
1	B	159	PRO	4.7
1	B	458	TYR	4.6
1	B	319	ALA	4.5
1	A	401	THR	4.2
1	A	367	VAL	4.2
1	B	359	LYS	4.1
1	B	329	SER	4.1
1	A	370	ALA	4.0
1	A	366	SER	3.8
1	B	263	VAL	3.7
1	A	360	ASN	3.6
1	B	300	ARG	3.5
1	B	366	SER	3.5
1	A	474	HIS	3.4
1	A	457	ASP	3.4
1	B	7	ALA	3.3
1	B	247	LYS	3.2
1	B	447	THR	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	329	SER	3.1
1	A	268	ALA	3.1
1	A	31	PHE	3.1
1	A	216	PHE	3.0
1	B	360	ASN	3.0
1	A	159	PRO	2.9
1	A	55	ALA	2.9
1	A	351	ASN	2.9
1	A	354	PHE	2.9
1	A	214	LEU	2.9
1	A	280	ASP	2.8
1	B	158	ARG	2.8
1	A	317	LEU	2.8
1	B	322	GLY	2.8
1	B	243	GLY	2.7
1	A	101	TRP	2.7
1	B	271	ARG	2.6
1	A	201	ARG	2.6
1	A	51	PRO	2.6
1	B	380	LEU	2.6
1	B	444	SER	2.5
1	B	134	VAL	2.5
1	B	246	THR	2.4
1	A	365	ALA	2.4
1	B	327	ALA	2.4
1	B	358	LYS	2.4
1	A	458	TYR	2.4
1	A	83	GLU	2.4
1	A	358	LYS	2.4
1	B	351	ASN	2.4
1	A	353	LYS	2.3
1	B	248	VAL	2.3
1	B	261	ALA	2.3
1	B	350	SER	2.3
1	B	362	GLN	2.3
1	A	134	VAL	2.3
1	A	372	ASP	2.3
1	B	29	PHE	2.3
1	B	28	ALA	2.3
1	B	457	ASP	2.3
1	A	243	GLY	2.2
1	B	474	HIS	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	487	PRO	2.2
1	A	8	GLU	2.2
1	A	30	GLY	2.1
1	A	361	GLY	2.1
1	A	218	SER	2.1
1	B	286	ASP	2.1
1	A	29	PHE	2.1
1	A	357	SER	2.1
1	A	14	PHE	2.1
1	B	249	GLY	2.1

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
3	CL	A	506	1/1	0.21	8.78	36,36,36,36	0
4	GOL	A	510	6/6	0.29	5.26	56,57,59,61	0
4	GOL	B	519	6/6	0.19	4.50	77,78,79,79	0
3	CL	B	507	1/1	0.17	2.78	37,37,37,37	0
4	GOL	B	517	6/6	0.22	1.90	59,62,64,66	0
3	CL	B	509	1/1	0.16	1.27	56,56,56,56	0
4	GOL	B	515	6/6	0.24	1.21	64,65,66,69	0
5	DTT	A	511	8/8	0.24	1.15	79,84,85,87	0
4	GOL	B	514	6/6	0.23	0.69	39,41,42,43	0
3	CL	B	508	1/1	0.20	0.58	62,62,62,62	0
4	GOL	B	516	6/6	0.21	0.53	66,67,68,68	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
4	GOL	B	518	6/6	0.20	0.49	44,47,48,51	0
4	GOL	A	508	6/6	0.14	0.17	42,47,51,53	0
4	GOL	B	513	6/6	0.15	-0.44	43,46,48,49	0
3	CL	A	505	1/1	0.11	-0.71	66,66,66,66	0
4	GOL	A	509	6/6	0.11	-0.79	41,45,46,49	0
3	CL	B	510	1/1	0.14	-1.11	34,34,34,34	0
3	CL	B	505	1/1	0.12	-1.12	57,57,57,57	0
3	CL	B	511	1/1	0.09	-1.21	44,44,44,44	0
3	CL	B	512	1/1	0.10	-1.25	70,70,70,70	0
2	BR	A	501	1/1	0.06	-1.52	75,75,75,75	0
2	BR	A	502	1/1	0.04	-2.22	57,57,57,57	0
2	BR	B	502	1/1	0.04	-2.34	75,75,75,75	0
3	CL	A	504	1/1	0.12	-2.39	67,67,67,67	0
2	BR	B	501	1/1	0.03	-2.73	50,50,50,50	0
3	CL	A	503	1/1	0.06	-2.95	57,57,57,57	0
3	CL	B	506	1/1	0.06	-2.97	65,65,65,65	0
3	CL	A	507	1/1	0.06	-3.65	54,54,54,54	0
2	BR	B	504	1/1	0.06	-3.86	86,86,86,86	0
2	BR	B	503	1/1	0.07	-3.88	75,75,75,75	0

6.5 Other polymers ⓘ

There are no such residues in this entry.