



Full wwPDB X-ray Structure Validation Report ⓘ

May 16, 2020 – 06:50 am BST

PDB ID : 4XRI
Title : Crystal Structure of Importin Beta in an Ammonium Sulfate Condition
Authors : Tauchert, M.J.; Neumann, P.; Ficner, R.; Dickmanns, A.
Deposited on : 2015-01-21
Resolution : 2.05 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

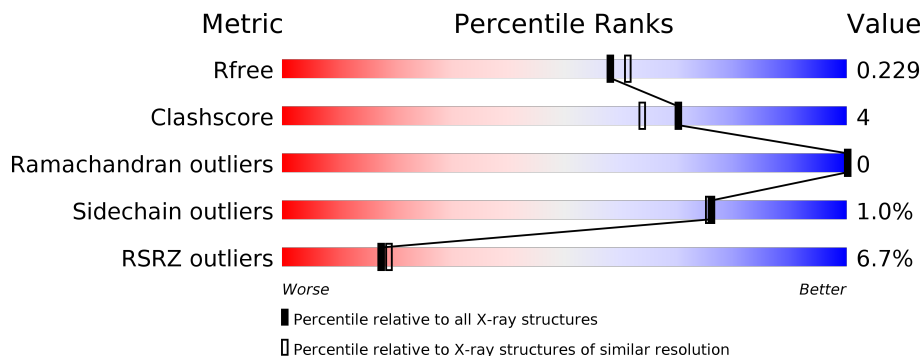
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.05 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	1692 (2.04-2.04)
Clashscore	141614	1773 (2.04-2.04)
Ramachandran outliers	138981	1752 (2.04-2.04)
Sidechain outliers	138945	1752 (2.04-2.04)
RSRZ outliers	127900	1672 (2.04-2.04)

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	882	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 7064 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 Putative uncharacterized protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	865	6653	4158	1152	1303	40	0	0	0

There are 7 discrepancies between the modelled and reference sequences:

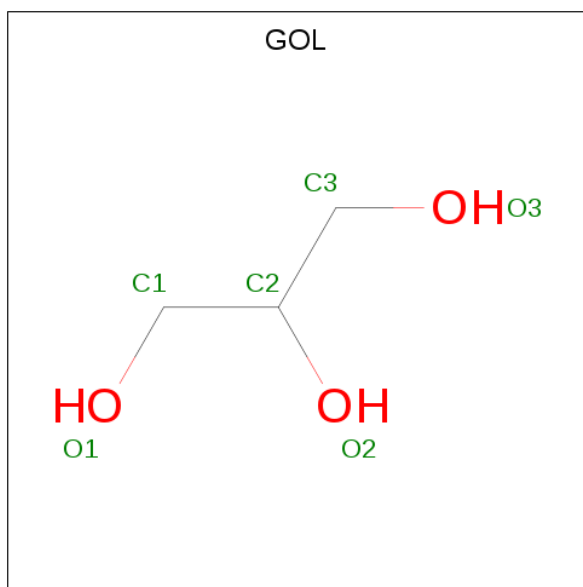
Chain	Residue	Modelled	Actual	Comment	Reference
A	-4	GLY	-	expression tag	UNP G0S143
A	-3	PRO	-	expression tag	UNP G0S143
A	-2	LEU	-	expression tag	UNP G0S143
A	-1	GLY	-	expression tag	UNP G0S143
A	0	SER	-	expression tag	UNP G0S143
A	107	PRO	SER	engineered mutation	UNP G0S143
A	143	ALA	VAL	engineered mutation	UNP G0S143

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



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

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

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

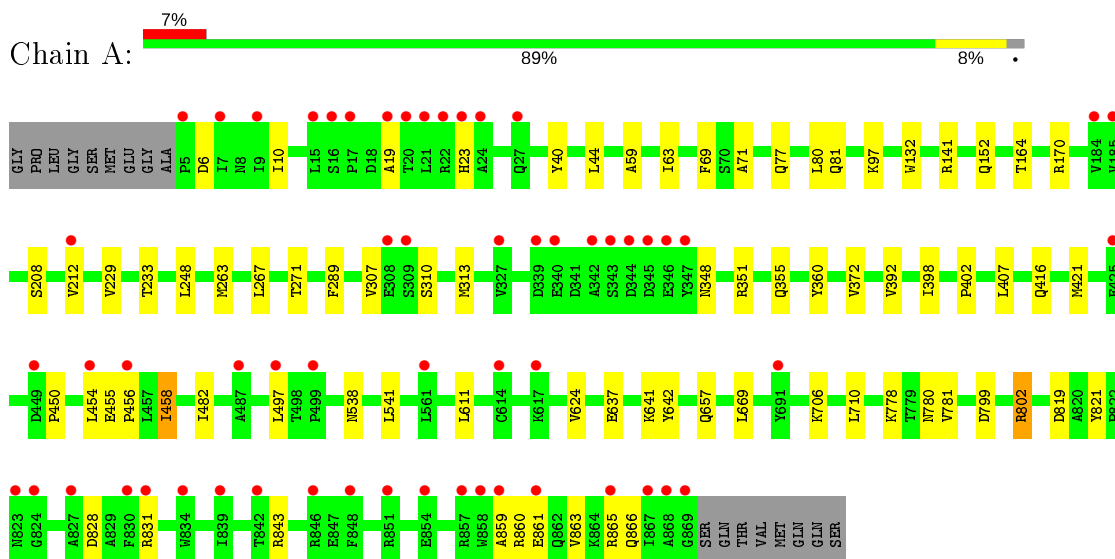
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	312	Total	O	0	0
			312	312		

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: Putative uncharacterized protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	62.86Å 85.04Å 207.75Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	37.33 – 2.05 46.54 – 2.05	Depositor EDS
% Data completeness (in resolution range)	99.2 (37.33-2.05) 93.3 (46.54-2.05)	Depositor EDS
R_{merge}	0.03	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.35 (at 2.05Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.198 , 0.227 0.199 , 0.229	Depositor DCC
R_{free} test set	3557 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	44.4	Xtrriage
Anisotropy	0.377	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 51.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7064	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.02% 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: GOL, 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	0.24	0/6764	0.41	0/9183

There are no bond length outliers.

There are no bond angle outliers.

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	6653	0	6547	48	0
2	A	45	0	0	0	0
3	A	54	0	72	1	0
4	A	312	0	0	2	0
All	All	7064	0	6619	48	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 (48) 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:A:77:GLN:HE21	1:A:81:GLN:CG	1.96	0.78
1:A:164:THR:O	1:A:170:ARG:NH1	2.26	0.68
1:A:402:PRO:HG2	1:A:407:LEU:HD11	1.77	0.66
1:A:77:GLN:HE21	1:A:81:GLN:HG3	1.60	0.66
1:A:458:ILE:HD11	1:A:482:ILE:HG21	1.80	0.64
1:A:450:PRO:HA	1:A:454:LEU:HB2	1.81	0.63
1:A:263:MET:HA	1:A:267:LEU:HB2	1.84	0.60
1:A:416:GLN:NE2	4:A:1009:HOH:O	2.36	0.58
1:A:69:PHE:HA	1:A:80:LEU:HB3	1.85	0.58
1:A:77:GLN:HE21	1:A:81:GLN:NE2	2.02	0.56
1:A:6:ASP:O	1:A:10:ILE:HG12	2.08	0.54
1:A:71:ALA:O	1:A:77:GLN:OE1	2.26	0.53
1:A:77:GLN:NE2	1:A:81:GLN:NE2	2.58	0.52
1:A:828:ASP:HA	1:A:831:ARG:HE	1.76	0.51
1:A:821:TYR:O	1:A:866:GLN:NE2	2.44	0.51
1:A:77:GLN:HE21	1:A:81:GLN:CD	2.13	0.50
1:A:351:ARG:O	1:A:355:GLN:HG2	2.12	0.50
1:A:77:GLN:NE2	1:A:81:GLN:HE21	2.10	0.50
1:A:780:ASN:OD1	1:A:781:VAL:N	2.44	0.50
1:A:208:SER:O	1:A:212:VAL:HG22	2.13	0.49
1:A:141:ARG:NH1	4:A:1016:HOH:O	2.44	0.48
1:A:778:LYS:O	1:A:781:VAL:HG12	2.13	0.48
1:A:392:VAL:HG11	1:A:421:MET:HG2	1.96	0.48
1:A:19:ALA:O	1:A:23:HIS:ND1	2.41	0.47
1:A:863:VAL:O	1:A:866:GLN:HB2	2.15	0.47
1:A:59:ALA:O	1:A:63:ILE:HG12	2.15	0.46
1:A:271:THR:HG21	1:A:289:PHE:CD2	2.51	0.46
1:A:641:LYS:HE3	1:A:642:TYR:CZ	2.51	0.45
1:A:152:GLN:HB3	3:A:917:GOL:O2	2.15	0.45
1:A:77:GLN:NE2	1:A:81:GLN:HG3	2.30	0.45
1:A:611:LEU:HG	1:A:624:VAL:HG11	1.99	0.45
1:A:859:ALA:O	1:A:863:VAL:HG23	2.17	0.45
1:A:229:VAL:O	1:A:233:THR:HG23	2.17	0.45
1:A:372:VAL:HG21	1:A:398:ILE:HG21	1.97	0.45
1:A:97:LYS:HE3	1:A:132:TRP:CD2	2.53	0.44
1:A:454:LEU:HD21	1:A:497:LEU:HD23	2.00	0.43
1:A:799:ASP:O	1:A:802:ARG:NH2	2.39	0.43
1:A:310:SER:HA	1:A:313:MET:HG2	2.01	0.43
1:A:637:GLU:CD	1:A:637:GLU:H	2.22	0.43
1:A:77:GLN:NE2	1:A:81:GLN:CG	2.76	0.43
1:A:40:TYR:CZ	1:A:44:LEU:HD11	2.54	0.43
1:A:455:GLU:HB3	1:A:456:PRO:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:861:GLU:O	1:A:865:ARG:HG3	2.18	0.43
1:A:706:LYS:O	1:A:710:LEU:HG	2.19	0.42
1:A:843:ARG:NH1	1:A:860:ARG:HD3	2.34	0.42
1:A:248:LEU:HD21	1:A:267:LEU:HD22	2.01	0.42
1:A:538:ASN:HA	1:A:541:LEU:HG	2.02	0.41
1:A:348:ASN:OD1	1:A:351:ARG:HG3	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	863/882 (98%)	847 (98%)	16 (2%)	0	100 100

There are no Ramachandran outliers to report.

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	707/720 (98%)	700 (99%)	7 (1%)	76 75

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

Mol	Chain	Res	Type
1	A	307	VAL
1	A	360	TYR
1	A	458	ILE
1	A	657	GLN
1	A	669	LEU
1	A	802	ARG
1	A	819	ASP

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	77	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

18 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	A	907	-	4,4,4	0.15	0	6,6,6	0.07	0
3	GOL	A	917	-	5,5,5	0.38	0	5,5,5	0.34	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	GOL	A	910	-	5,5,5	0.36	0	5,5,5	0.25	0
2	SO4	A	905	-	4,4,4	0.13	0	6,6,6	0.06	0
2	SO4	A	908	-	4,4,4	0.14	0	6,6,6	0.05	0
2	SO4	A	901	-	4,4,4	0.14	0	6,6,6	0.05	0
2	SO4	A	906	-	4,4,4	0.14	0	6,6,6	0.05	0
3	GOL	A	916	-	5,5,5	0.38	0	5,5,5	0.30	0
3	GOL	A	914	-	5,5,5	0.38	0	5,5,5	0.31	0
2	SO4	A	902	-	4,4,4	0.14	0	6,6,6	0.06	0
3	GOL	A	912	-	5,5,5	0.42	0	5,5,5	0.49	0
2	SO4	A	903	-	4,4,4	0.14	0	6,6,6	0.05	0
3	GOL	A	915	-	5,5,5	0.37	0	5,5,5	0.25	0
3	GOL	A	918	-	5,5,5	0.36	0	5,5,5	0.31	0
3	GOL	A	911	-	5,5,5	0.34	0	5,5,5	0.37	0
3	GOL	A	913	-	5,5,5	0.38	0	5,5,5	0.31	0
2	SO4	A	904	-	4,4,4	0.14	0	6,6,6	0.07	0
2	SO4	A	909	-	4,4,4	0.14	0	6,6,6	0.05	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
3	GOL	A	914	-	-	2/4/4/4	-
3	GOL	A	917	-	-	2/4/4/4	-
3	GOL	A	910	-	-	2/4/4/4	-
3	GOL	A	913	-	-	2/4/4/4	-
3	GOL	A	916	-	-	2/4/4/4	-
3	GOL	A	912	-	-	2/4/4/4	-
3	GOL	A	915	-	-	2/4/4/4	-
3	GOL	A	911	-	-	2/4/4/4	-
3	GOL	A	918	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	910	GOL	O1-C1-C2-C3
3	A	916	GOL	O1-C1-C2-C3
3	A	914	GOL	O1-C1-C2-O2
3	A	915	GOL	O1-C1-C2-C3
3	A	912	GOL	O1-C1-C2-O2
3	A	917	GOL	O1-C1-C2-O2
3	A	917	GOL	O1-C1-C2-C3
3	A	914	GOL	O1-C1-C2-C3
3	A	911	GOL	O1-C1-C2-C3
3	A	913	GOL	O1-C1-C2-C3
3	A	912	GOL	O1-C1-C2-C3
3	A	910	GOL	O1-C1-C2-O2
3	A	915	GOL	O1-C1-C2-O2
3	A	916	GOL	O1-C1-C2-O2
3	A	913	GOL	O1-C1-C2-O2
3	A	911	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	917	GOL	1	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	865/882 (98%)	0.68	58 (6%) 17 19	32, 51, 86, 106	0

All (58) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	5	PRO	6.5
1	A	22	ARG	5.2
1	A	345	ASP	5.1
1	A	342	ALA	5.0
1	A	347	TYR	5.0
1	A	867	ILE	4.9
1	A	823	ASN	4.8
1	A	858	TRP	4.3
1	A	454	LEU	4.2
1	A	846	ARG	4.1
1	A	487	ALA	3.7
1	A	425	GLU	3.7
1	A	857	ARG	3.7
1	A	15	LEU	3.6
1	A	16	SER	3.5
1	A	824	GLY	3.5
1	A	830	PHE	3.4
1	A	21	LEU	3.4
1	A	865	ARG	3.3
1	A	344	ASP	3.2
1	A	869	GLY	3.1
1	A	851	ARG	3.0
1	A	339	ASP	3.0
1	A	499	PRO	3.0
1	A	617	LYS	2.9
1	A	20	THR	2.9
1	A	834	TRP	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	831	ARG	2.9
1	A	848	PHE	2.8
1	A	861	GLU	2.8
1	A	309	SER	2.8
1	A	27	GLN	2.7
1	A	497	LEU	2.7
1	A	212	VAL	2.6
1	A	23	HIS	2.6
1	A	17	PRO	2.6
1	A	859	ALA	2.5
1	A	868	ALA	2.5
1	A	9	ILE	2.5
1	A	308	GLU	2.5
1	A	839	ILE	2.4
1	A	614	CYS	2.4
1	A	24	ALA	2.4
1	A	854	GLU	2.3
1	A	456	PRO	2.3
1	A	340	GLU	2.3
1	A	19	ALA	2.3
1	A	7	ILE	2.3
1	A	346	GLU	2.2
1	A	842	THR	2.2
1	A	561	LEU	2.2
1	A	691	TYR	2.2
1	A	184	VAL	2.1
1	A	449	ASP	2.1
1	A	343	SER	2.1
1	A	827	ALA	2.1
1	A	185	VAL	2.0
1	A	327	VAL	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
3	GOL	A	915	6/6	0.67	0.18	61,68,72,73	0
3	GOL	A	913	6/6	0.74	0.20	85,89,93,97	0
3	GOL	A	917	6/6	0.79	0.30	46,62,67,70	0
3	GOL	A	910	6/6	0.79	0.21	70,75,76,76	0
3	GOL	A	911	6/6	0.80	0.23	58,67,68,72	0
2	SO4	A	905	5/5	0.84	0.14	78,83,85,87	5
3	GOL	A	918	6/6	0.86	0.28	57,57,57,57	6
3	GOL	A	914	6/6	0.87	0.18	63,67,70,74	0
2	SO4	A	901	5/5	0.88	0.25	87,92,94,95	0
2	SO4	A	908	5/5	0.90	0.13	61,61,68,69	5
3	GOL	A	912	6/6	0.90	0.19	60,61,63,65	0
2	SO4	A	909	5/5	0.91	0.23	85,86,88,89	5
3	GOL	A	916	6/6	0.91	0.17	61,74,77,79	0
2	SO4	A	907	5/5	0.92	0.12	59,67,72,76	5
2	SO4	A	906	5/5	0.92	0.11	69,78,79,80	5
2	SO4	A	904	5/5	0.93	0.19	69,79,82,82	5
2	SO4	A	903	5/5	0.95	0.17	64,65,66,72	0
2	SO4	A	902	5/5	0.97	0.14	44,58,63,63	5

6.5 Other polymers [i](#)

There are no such residues in this entry.