



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 14, 2020 – 03:03 PM BST

PDB ID : 6XJ9
Title : Structure of PFGH50B
Authors : Pluinage, B.; Boraston, A.B.
Deposited on : 2020-06-23
Resolution : 2.00 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 : 2.14.4.dev1
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) : 2.14.4.dev1

2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 11402 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 Agarase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	706	5650	3610	950	1076	14	0	5	0
1	B	681	5382	3440	898	1030	14	0	3	0

There are 46 discrepancies between the modelled and reference sequences:

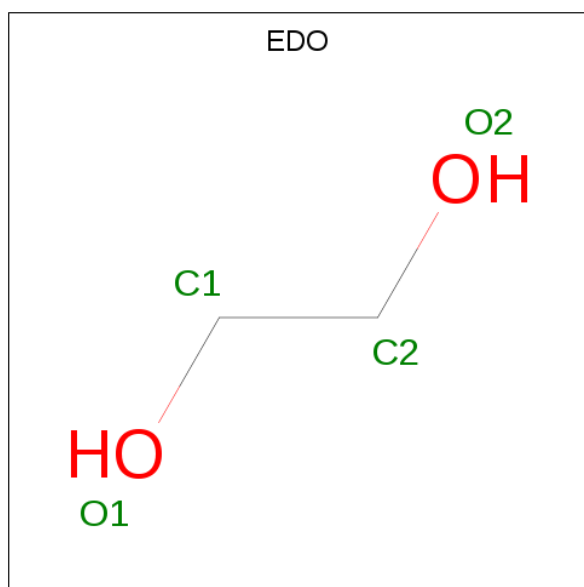
Chain	Residue	Modelled	Actual	Comment	Reference
A	15	MET	-	initiating methionine	UNP A0A5B0UCF9
A	16	GLY	-	expression tag	UNP A0A5B0UCF9
A	17	SER	-	expression tag	UNP A0A5B0UCF9
A	18	SER	-	expression tag	UNP A0A5B0UCF9
A	19	HIS	-	expression tag	UNP A0A5B0UCF9
A	20	HIS	-	expression tag	UNP A0A5B0UCF9
A	21	HIS	-	expression tag	UNP A0A5B0UCF9
A	22	HIS	-	expression tag	UNP A0A5B0UCF9
A	23	HIS	-	expression tag	UNP A0A5B0UCF9
A	24	HIS	-	expression tag	UNP A0A5B0UCF9
A	25	SER	-	expression tag	UNP A0A5B0UCF9
A	26	SER	-	expression tag	UNP A0A5B0UCF9
A	27	GLY	-	expression tag	UNP A0A5B0UCF9
A	28	LEU	-	expression tag	UNP A0A5B0UCF9
A	29	VAL	-	expression tag	UNP A0A5B0UCF9
A	30	PRO	-	expression tag	UNP A0A5B0UCF9
A	31	ARG	-	expression tag	UNP A0A5B0UCF9
A	32	GLY	-	expression tag	UNP A0A5B0UCF9
A	33	SER	-	expression tag	UNP A0A5B0UCF9
A	34	HIS	-	expression tag	UNP A0A5B0UCF9
A	35	MET	-	expression tag	UNP A0A5B0UCF9
A	36	ALA	-	expression tag	UNP A0A5B0UCF9
A	37	SER	-	expression tag	UNP A0A5B0UCF9
B	15	MET	-	initiating methionine	UNP A0A5B0UCF9
B	16	GLY	-	expression tag	UNP A0A5B0UCF9

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Chain	Residue	Modelled	Actual	Comment	Reference
B	17	SER	-	expression tag	UNP A0A5B0UCF9
B	18	SER	-	expression tag	UNP A0A5B0UCF9
B	19	HIS	-	expression tag	UNP A0A5B0UCF9
B	20	HIS	-	expression tag	UNP A0A5B0UCF9
B	21	HIS	-	expression tag	UNP A0A5B0UCF9
B	22	HIS	-	expression tag	UNP A0A5B0UCF9
B	23	HIS	-	expression tag	UNP A0A5B0UCF9
B	24	HIS	-	expression tag	UNP A0A5B0UCF9
B	25	SER	-	expression tag	UNP A0A5B0UCF9
B	26	SER	-	expression tag	UNP A0A5B0UCF9
B	27	GLY	-	expression tag	UNP A0A5B0UCF9
B	28	LEU	-	expression tag	UNP A0A5B0UCF9
B	29	VAL	-	expression tag	UNP A0A5B0UCF9
B	30	PRO	-	expression tag	UNP A0A5B0UCF9
B	31	ARG	-	expression tag	UNP A0A5B0UCF9
B	32	GLY	-	expression tag	UNP A0A5B0UCF9
B	33	SER	-	expression tag	UNP A0A5B0UCF9
B	34	HIS	-	expression tag	UNP A0A5B0UCF9
B	35	MET	-	expression tag	UNP A0A5B0UCF9
B	36	ALA	-	expression tag	UNP A0A5B0UCF9
B	37	SER	-	expression tag	UNP A0A5B0UCF9

- Molecule 2 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

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

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	283	283	283	0	0
3	B	79	79	79	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	73.24Å 76.26Å 269.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.67 – 2.00 29.65 – 2.00	Depositor EDS
% Data completeness (in resolution range)	96.9 (29.67-2.00) 96.9 (29.65-2.00)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.55 (at 2.00Å)	Xtrriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.224 , 0.269 0.224 , 0.269	Depositor DCC
R_{free} test set	5132 reflections (5.14%)	wwPDB-VP
Wilson B-factor (Å ²)	30.2	Xtrriage
Anisotropy	0.015	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 40.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.26$	Xtrriage
Estimated twinning fraction	0.057 for k,h,-l	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	11402	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtrriage'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.*

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: EDO

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	0.30	0/5802	0.60	0/7875
1	B	0.27	0/5528	0.56	0/7510
All	All	0.29	0/11330	0.58	0/15385

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	5650	0	5344	35	0
1	B	5382	0	5030	44	0
2	A	8	0	12	0	0
3	A	283	0	0	4	0
3	B	79	0	0	2	0
All	All	11402	0	10386	79	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 (79) 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:259:LEU:HD22	1:A:422:GLN:HE21	1.25	0.99
1:A:259:LEU:HD22	1:A:422:GLN:NE2	1.83	0.93
1:B:667:LYS:HB2	3:B:873:HOH:O	1.85	0.76
1:B:103:PHE:HE2	1:B:222:LEU:HD22	1.52	0.74
1:A:718:ILE:HG13	1:A:768[A]:MET:CE	2.22	0.70
1:A:718:ILE:CG1	1:A:768[A]:MET:CE	2.71	0.69
1:B:125:ASP:HB3	1:B:127:ASP:H	1.61	0.66
1:B:528:ARG:O	1:B:534:SER:HB3	1.97	0.64
1:A:718:ILE:CG1	1:A:768[A]:MET:HE1	2.29	0.62
1:A:744:GLU:HG2	3:A:911:HOH:O	2.03	0.59
1:B:714:MET:HA	1:B:714:MET:CE	2.33	0.59
1:B:103:PHE:CE2	1:B:222:LEU:HD22	2.34	0.58
1:A:718:ILE:HG12	1:A:768[A]:MET:CE	2.33	0.58
1:B:714:MET:HE2	1:B:714:MET:HA	1.87	0.57
1:A:686:GLY:HA3	1:A:695:PRO:O	2.05	0.56
1:A:474:LYS:HE3	1:A:549:THR:O	2.05	0.56
1:A:490:PHE:CZ	1:A:555:GLU:HG2	2.41	0.56
1:B:545:ARG:O	1:B:553:LYS:NZ	2.39	0.55
1:A:116:SER:O	1:A:213:LYS:CE	2.55	0.54
1:B:125:ASP:HB3	1:B:127:ASP:N	2.21	0.54
1:A:758:TYR:HB3	3:A:942:HOH:O	2.08	0.53
1:A:264:GLN:OE1	1:A:264:GLN:HA	2.08	0.53
1:A:667:LYS:HE3	3:A:928:HOH:O	2.10	0.51
1:A:145:TYR:HA	1:A:183:VAL:O	2.10	0.51
1:A:718:ILE:HG12	1:A:768[A]:MET:HE1	1.90	0.50
1:B:718:ILE:HG13	1:B:768[A]:MET:CE	2.41	0.50
1:A:432:ARG:HD3	1:A:454:SER:HB3	1.92	0.50
1:B:449:ASN:OD1	1:B:466:ASN:HB3	2.13	0.49
1:B:328:THR:HG22	1:B:410:SER:HB2	1.95	0.49
1:A:142:TYR:CE1	1:A:218:LYS:HB2	2.48	0.48
1:A:578:LEU:HD21	1:A:588:VAL:HG13	1.96	0.48
1:A:667:LYS:CE	3:A:928:HOH:O	2.60	0.48
1:B:542:THR:HG21	1:B:552:THR:HG22	1.97	0.47
1:A:470:ILE:O	1:A:497:ARG:HD3	2.14	0.47
1:B:391:HIS:CE1	1:B:414:ALA:HA	2.50	0.47
1:B:490:PHE:CZ	1:B:555:GLU:HG2	2.50	0.47
1:B:186:ILE:HG21	1:B:694:HIS:CE1	2.51	0.46
1:A:564:TYR:O	1:A:566:ASP:N	2.50	0.45
1:B:573:VAL:HG13	1:B:596:GLU:HB3	1.97	0.45
1:A:452:ASP:OD2	1:A:454:SER:HB2	2.17	0.45
1:B:239:GLU:O	1:B:418:ARG:NH2	2.49	0.45
1:A:263:LYS:HD3	1:A:263:LYS:HA	1.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:378:PHE:HB3	3:B:838:HOH:O	2.16	0.45
1:B:733:ASP:OD2	1:B:758:TYR:OH	2.29	0.44
1:A:466:ASN:HA	1:A:519:PHE:O	2.16	0.44
1:B:145:TYR:HA	1:B:183:VAL:O	2.18	0.44
1:A:563:LYS:HE2	1:A:564:TYR:CZ	2.53	0.44
1:B:713:TYR:HD1	1:B:714:MET:CE	2.31	0.44
1:B:148:LYS:HD3	1:B:178:TRP:CZ3	2.53	0.44
1:B:148:LYS:HD3	1:B:178:TRP:HZ3	1.82	0.44
1:B:452:ASP:OD2	1:B:454:SER:HB2	2.17	0.44
1:A:116:SER:O	1:A:213:LYS:HE2	2.17	0.44
1:A:545:ARG:O	1:A:553:LYS:NZ	2.49	0.44
1:B:124:SER:HB2	1:B:201:LYS:CG	2.48	0.44
1:B:131:TYR:OH	1:B:187:SER:HB3	2.18	0.43
1:B:319:ILE:HG21	1:B:731:TYR:HA	1.99	0.43
1:A:449:ASN:OD1	1:A:466:ASN:HB3	2.19	0.43
1:A:474:LYS:CE	1:A:549:THR:O	2.65	0.43
1:B:306:LEU:HB2	1:B:314:TYR:O	2.19	0.43
1:B:678:ALA:O	1:B:724:ILE:HG13	2.18	0.42
1:B:314:TYR:HA	1:B:773:TYR:OH	2.18	0.42
1:B:315:LEU:HD11	1:B:776:ARG:HD3	2.02	0.42
1:A:453:PRO:HA	1:A:456:TYR:CD1	2.55	0.42
1:B:314:TYR:OH	1:B:446:SER:HB3	2.19	0.42
1:A:66:VAL:HG21	1:A:87:ILE:HD12	2.02	0.41
1:B:495:THR:HG23	1:B:615:VAL:HG13	2.01	0.41
1:B:575:HIS:HB2	1:B:594:ASN:HD22	1.85	0.41
1:A:259:LEU:CD2	1:A:422:GLN:NE2	2.69	0.41
1:B:564:TYR:O	1:B:566:ASP:N	2.51	0.41
1:B:584:PHE:HA	1:B:588:VAL:CG2	2.51	0.41
1:B:526:PHE:HB3	1:B:643:VAL:HG21	2.02	0.41
1:A:319:ILE:HG21	1:A:731:TYR:HA	2.03	0.41
1:B:262:LYS:HE3	1:B:430:LYS:HE2	2.02	0.41
1:B:656:PHE:O	1:B:680:ILE:HA	2.21	0.41
1:B:413:ALA:O	1:B:416:LEU:HB2	2.21	0.41
1:B:718:ILE:HG13	1:B:768[A]:MET:HE2	2.02	0.41
1:B:125:ASP:CB	1:B:128:GLY:H	2.33	0.40
1:A:50:THR:HG21	1:A:53:THR:CB	2.52	0.40
1:B:280:PHE:CE1	1:B:309:PRO:HG2	2.57	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	703/765 (92%)	684 (97%)	19 (3%)	0	100	100
1	B	674/765 (88%)	643 (95%)	31 (5%)	0	100	100
All	All	1377/1530 (90%)	1327 (96%)	50 (4%)	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	590/654 (90%)	585 (99%)	5 (1%)	81	86
1	B	556/654 (85%)	552 (99%)	4 (1%)	84	88
All	All	1146/1308 (88%)	1137 (99%)	9 (1%)	81	86

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	49	ASP
1	A	99	GLU
1	A	458	ASN
1	A	684	HIS
1	A	750	PHE
1	B	302	ASP
1	B	458	ASN
1	B	684	HIS

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Mol	Chain	Res	Type
1	B	750	PHE

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

2 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	EDO	A	801	-	3,3,3	0.09	0	2,2,2	0.27	0
2	EDO	A	802	-	3,3,3	0.05	0	2,2,2	0.22	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
2	EDO	A	801	-	-	0/1/1/1	-
2	EDO	A	802	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	802	EDO	O1-C1-C2-O2

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

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	706/765 (92%)	0.14	11 (1%) 72 70	14, 26, 48, 72	0
1	B	681/765 (89%)	0.75	74 (10%) 5 5	23, 46, 71, 83	0
All	All	1387/1530 (90%)	0.44	85 (6%) 21 20	14, 36, 65, 83	0

All (85) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	483	TRP	6.8
1	B	403	LEU	4.7
1	A	482	PHE	4.6
1	B	228	PHE	4.5
1	B	398	ALA	4.4
1	B	368	PHE	4.3
1	B	190	GLY	4.2
1	B	370	ALA	4.1
1	B	191	LYS	4.1
1	B	470	ILE	4.1
1	A	155	ALA	4.0
1	B	384	TYR	3.9
1	B	71	SER	3.9
1	A	357	ASN	3.8
1	B	366	SER	3.7
1	A	167	PHE	3.5
1	B	129	ALA	3.5
1	B	480	ASN	3.5
1	A	70	ASN	3.5
1	B	193	ASN	3.3
1	B	317	THR	3.3
1	B	385	SER	3.3
1	B	252	VAL	3.2
1	B	50	THR	3.2

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Mol	Chain	Res	Type	RSRZ
1	B	126	ILE	3.1
1	B	100	PHE	3.1
1	B	373	VAL	3.1
1	B	516	VAL	3.1
1	B	380	TRP	3.0
1	B	598	LEU	3.0
1	B	57	VAL	3.0
1	B	741	TYR	2.9
1	A	341	ALA	2.9
1	B	56	SER	2.9
1	B	578	LEU	2.8
1	B	127	ASP	2.8
1	B	425	ALA	2.8
1	B	484	GLY	2.8
1	B	258	LEU	2.7
1	B	70	ASN	2.7
1	B	253	HIS	2.7
1	B	726	ALA	2.7
1	B	332	GLY	2.7
1	B	479	GLY	2.7
1	A	364	LEU	2.7
1	B	549	THR	2.7
1	B	736	ILE	2.7
1	B	53	THR	2.7
1	B	544	GLY	2.6
1	B	394	TYR	2.6
1	B	230	THR	2.6
1	A	424	ASN	2.6
1	B	383	ASP	2.5
1	B	128	GLY	2.5
1	B	330	LEU	2.5
1	B	399	HIS	2.5
1	B	240	PHE	2.5
1	B	381	LEU	2.5
1	B	333	TYR	2.5
1	B	564	TYR	2.4
1	B	331	THR	2.4
1	B	69	GLU	2.4
1	B	227	GLN	2.4
1	B	468	TRP	2.4
1	B	392	PHE	2.3
1	B	424	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	732	ILE	2.3
1	B	198	GLY	2.3
1	B	65	ILE	2.3
1	B	94	PRO	2.3
1	B	300	TYR	2.2
1	B	316	ALA	2.2
1	B	396	LYS	2.2
1	B	724	ILE	2.2
1	B	288	LYS	2.2
1	A	71	SER	2.2
1	B	405	HIS	2.1
1	B	412	TYR	2.1
1	B	402	PRO	2.1
1	B	397	SER	2.1
1	B	68	ASN	2.1
1	B	302	ASP	2.0
1	A	135	VAL	2.0
1	B	318	GLY	2.0
1	B	421	GLY	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 monosaccharides 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
2	EDO	A	802	4/4	0.87	0.11	54,54,55,56	0
2	EDO	A	801	4/4	0.90	0.12	46,50,50,52	0

6.5 Other polymers

There are no such residues in this entry.