



Full wwPDB X-ray Structure Validation Report

Feb 27, 2014 – 03:49 PM GMT

PDB ID : 3D1T
Title : Crystal Structure of GCYH-IB
Authors : Sankaran, B.; Swairjo, M.A.
Deposited on : 2008-05-06
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>

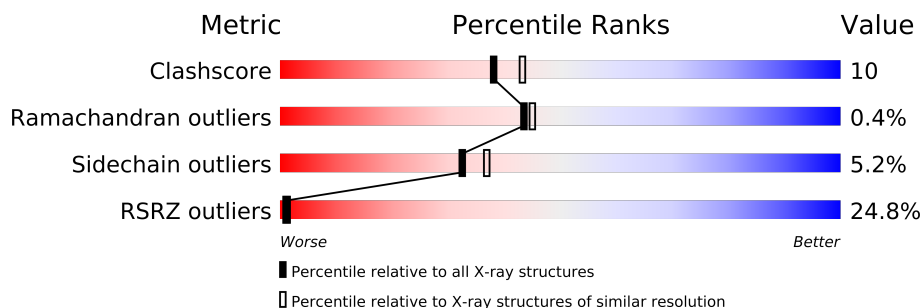
The following versions of software and data (see [references](#)) were used in the production of this report:

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))
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	257	
1	B	257	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 3967 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 UPF0343 protein NGO0387.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	244	Total	C	N	O	S	Se	0	0	0
			1919	1214	326	368	3	8			
1	B	243	Total	C	N	O	S	Se	0	0	0
			1908	1208	322	367	3	8			

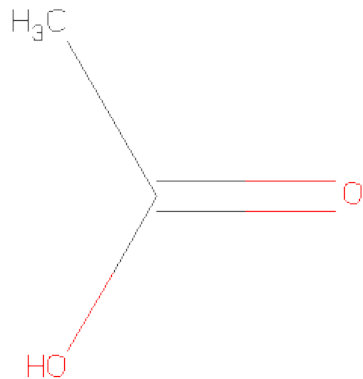
- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Zn	0	0
			1	1		
2	A	1	Total	Zn	0	0
			1	1		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Cl	0	0
			1	1		

- Molecule 4 is ACETIC ACID (three-letter code: ACY) (formula: C₂H₄O₂).



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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	54	Total	O	0	0
			54	54		
5	B	79	Total	O	0	0
			79	79		

4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	91.72Å 100.29Å 114.06Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.90 – 2.20 45.91 – 2.21	Depositor EDS
% Data completeness (in resolution range)	99.8 (45.90-2.20) 92.2 (45.91-2.21)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.30 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.200 , 0.250 0.383 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	41.0	Xtriage
Anisotropy	0.320	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , -1.3	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	1 of 26616 reflections (0.004%)	Xtriage
F_o, F_c correlation	0.83	EDS
Total number of atoms	3967	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 5.01% 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: ZN, ACY, CL

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	4/1948 (0.2%)	0.69	4/2623 (0.2%)
1	B	0.64	4/1937 (0.2%)	0.69	4/2608 (0.2%)
All	All	0.63	8/3885 (0.2%)	0.69	8/5231 (0.2%)

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

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	253	TYR	CG-CD1	-9.90	1.26	1.39
1	B	253	TYR	CE1-CZ	-9.58	1.26	1.38
1	B	253	TYR	CE2-CZ	-9.47	1.26	1.38
1	A	253	TYR	CE2-CZ	-9.31	1.26	1.38
1	B	253	TYR	CG-CD2	-9.05	1.27	1.39
1	A	253	TYR	CE1-CZ	-8.84	1.27	1.38
1	B	253	TYR	CG-CD1	-8.52	1.28	1.39
1	A	253	TYR	CG-CD2	-7.53	1.29	1.39

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	75	ASP	CB-CG-OD1	8.76	126.18	118.30
1	B	140	MSE	CA-CB-CG	7.77	126.50	113.30
1	A	75	ASP	CB-CG-OD2	-5.85	113.03	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	75	ASP	CB-CG-OD1	5.53	123.28	118.30
1	A	140	MSE	CB-CG-SE	5.42	128.96	112.70
1	B	140	MSE	CB-CG-SE	5.19	128.28	112.70
1	A	253	TYR	CB-CG-CD2	5.19	124.11	121.00
1	B	75	ASP	CB-CG-OD2	-5.03	113.77	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	14	ARG	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	1919	0	1919	39	0
1	B	1908	0	1906	44	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	1	0	0	0	0
4	B	4	0	3	2	0
5	A	54	0	0	3	0
5	B	79	0	0	6	0
All	All	3967	0	3828	76	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 10.

All (76) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:45:LEU:HD23	1:B:99:VAL:HB	1.65	0.78
1:A:45:LEU:HD23	1:A:99:VAL:HB	1.70	0.73
1:B:142:PRO:HB2	1:B:192:LEU:HD12	1.72	0.72
1:A:142:PRO:HB2	1:A:192:LEU:HD12	1.73	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:165:VAL:HG21	1:A:218:MSE:HE3	1.76	0.66
1:B:165:VAL:HG21	1:B:218:MSE:HE3	1.79	0.64
1:B:44:ARG:NE	5:B:314:HOH:O	2.28	0.62
1:B:246:HIS:HE1	4:B:259:ACY:H1	1.64	0.62
1:B:248:HIS:HE1	5:B:288:HOH:O	1.87	0.57
1:B:45:LEU:CD2	1:B:99:VAL:HB	2.35	0.57
1:A:128:MSE:HE3	1:A:131:GLY:HA2	1.87	0.57
1:A:214:PHE:HB3	1:A:216:GLU:OE1	2.06	0.55
1:B:166:THR:HB	1:B:238:GLU:HG3	1.88	0.55
1:B:128:MSE:HE3	1:B:131:GLY:HA2	1.87	0.55
1:B:214:PHE:HB3	1:B:216:GLU:OE1	2.07	0.54
1:A:81:ARG:HD3	5:A:306:HOH:O	2.07	0.54
1:B:107:LYS:HE2	1:B:118:LEU:HD22	1.90	0.54
1:B:151:LYS:HE3	1:B:209:TYR:CE2	2.42	0.53
1:B:69:GLN:HB2	5:B:324:HOH:O	2.08	0.53
1:A:228:ALA:HB3	5:A:279:HOH:O	2.09	0.53
1:A:78:GLN:HE22	1:A:81:ARG:HE	1.57	0.53
1:B:78:GLN:HE22	1:B:81:ARG:HE	1.56	0.53
1:A:107:LYS:HE2	1:A:118:LEU:HD22	1.90	0.53
1:A:140:MSE:HG3	5:A:291:HOH:O	2.08	0.52
1:A:45:LEU:CD2	1:A:99:VAL:HB	2.38	0.51
1:B:143:VAL:HG21	1:B:218:MSE:HE2	1.93	0.51
1:A:166:THR:HB	1:A:238:GLU:HG3	1.92	0.51
1:A:255:ALA:H	1:B:19:ASN:ND2	2.09	0.50
1:A:143:VAL:HG21	1:A:218:MSE:HE2	1.92	0.50
1:B:196:LEU:HD22	1:B:200:ASP:HB3	1.94	0.50
1:B:248:HIS:CE1	5:B:288:HOH:O	2.64	0.49
1:A:151:LYS:HE3	1:A:209:TYR:CE2	2.47	0.49
1:B:47:MSE:HE1	1:B:66:LEU:HD23	1.94	0.49
1:A:196:LEU:HD22	1:A:200:ASP:HB3	1.94	0.49
1:A:254:ILE:HA	1:B:19:ASN:HD22	1.76	0.49
1:A:19:ASN:HD22	1:A:19:ASN:H	1.60	0.48
1:A:227:ILE:HD12	1:B:16:LEU:HD21	1.94	0.48
1:B:70:HIS:O	1:B:70:HIS:ND1	2.47	0.48
1:A:70:HIS:ND1	1:A:70:HIS:O	2.47	0.48
1:B:78:GLN:HE22	1:B:81:ARG:NE	2.12	0.48
1:A:78:GLN:HE22	1:A:81:ARG:NE	2.12	0.47
1:A:47:MSE:HE1	1:A:66:LEU:HD23	1.97	0.47
1:B:129:LYS:O	1:B:130:ASP:HB2	2.15	0.46
1:A:190:CYS:SG	1:A:204:VAL:HG23	2.56	0.46
1:A:136:SER:CB	1:A:170:THR:HG22	2.46	0.46
1:B:253:TYR:C	1:B:253:TYR:CD1	2.90	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:19:ASN:HD22	1:B:254:ILE:HA	1.80	0.45
1:A:129:LYS:O	1:A:130:ASP:HB2	2.15	0.45
1:B:234:SER:HB2	1:B:257:PRO:C	2.37	0.45
1:B:256:TYR:CG	1:B:257:PRO:HD2	2.53	0.44
1:B:19:ASN:H	1:B:19:ASN:HD22	1.65	0.44
1:A:19:ASN:ND2	1:B:255:ALA:H	2.15	0.44
1:B:71:THR:HG22	1:B:71:THR:O	2.17	0.44
1:B:165:VAL:HG21	1:B:218:MSE:CE	2.46	0.44
1:B:75:ASP:OD1	1:B:76:PHE:N	2.51	0.44
1:A:16:LEU:HD21	1:B:227:ILE:HD12	2.00	0.43
1:B:136:SER:HB2	1:B:170:THR:HG22	2.00	0.43
1:A:14:ARG:HA	1:A:14:ARG:HD2	1.23	0.43
4:B:259:ACY:C	5:B:287:HOH:O	2.66	0.42
1:B:47:MSE:CE	1:B:66:LEU:HD23	2.49	0.42
1:A:75:ASP:OD1	1:A:77:ALA:N	2.47	0.42
1:A:30:ILE:HD13	1:A:43:ALA:HB2	2.01	0.42
1:A:227:ILE:CD1	1:B:16:LEU:HD21	2.49	0.42
1:B:136:SER:CB	1:B:170:THR:HG22	2.50	0.42
1:A:28:PHE:HA	1:A:29:PRO:HD3	1.90	0.42
1:A:165:VAL:HG21	1:A:218:MSE:CE	2.46	0.41
1:B:45:LEU:HD13	1:B:67:MSE:HE3	2.02	0.41
1:B:111:VAL:HG11	1:B:199:PRO:HB2	2.02	0.41
1:A:45:LEU:HD13	1:A:67:MSE:HE3	2.02	0.41
1:A:71:THR:HG22	1:A:71:THR:O	2.20	0.41
1:B:190:CYS:SG	1:B:204:VAL:HG23	2.60	0.41
1:A:254:ILE:HA	1:B:19:ASN:ND2	2.36	0.41
1:A:47:MSE:SE	1:A:67:MSE:HE2	2.71	0.41
1:B:75:ASP:OD1	1:B:75:ASP:C	2.60	0.40
1:A:104:PHE:CE1	1:A:119:ASP:HB3	2.56	0.40
1:B:248:HIS:HD2	5:B:262:HOH:O	2.03	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	242/257 (94%)	237 (98%)	4 (2%)	1 (0%)	43	45
1	B	241/257 (94%)	235 (98%)	5 (2%)	1 (0%)	43	45
All	All	483/514 (94%)	472 (98%)	9 (2%)	2 (0%)	43	45

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	16	LEU
1	B	16	LEU

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	214/216 (99%)	203 (95%)	11 (5%)	33	38
1	B	213/216 (99%)	202 (95%)	11 (5%)	32	37
All	All	427/432 (99%)	405 (95%)	22 (5%)	32	37

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	ARG
1	A	75	ASP
1	A	90	LEU
1	A	99	VAL
1	A	106	LYS
1	A	140	MSE
1	A	156	TYR
1	A	174	GLU
1	A	204	VAL
1	A	233	LYS
1	A	241	ASN
1	B	75	ASP
1	B	90	LEU
1	B	99	VAL
1	B	106	LYS

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Mol	Chain	Res	Type
1	B	140	MSE
1	B	156	TYR
1	B	174	GLU
1	B	204	VAL
1	B	233	LYS
1	B	241	ASN
1	B	253	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	19	ASN
1	A	78	GLN
1	A	80	HIS
1	A	241	ASN
1	B	19	ASN
1	B	78	GLN
1	B	80	HIS
1	B	248	HIS

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 4 ligands modelled in this entry, 3 are monoatomic - leaving 1 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	ACY	B	259	-	3,3,3	0.80	0	3,3,3	0.25	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	ACY	B	259	-	-	0/0/0/0	0/0/0/0

There are no bond length outliers.

There are no bond angle outliers.

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	244/257 (94%)	1.63	73 (29%)  	1, 49, 86, 98	0
1	B	243/257 (94%)	1.26	48 (19%)  	1, 47, 71, 83	0
All	All	487/514 (94%)	1.45	121 (24%)  	1, 48, 81, 98	0

All (121) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	156	TYR	8.7
1	A	149	CYS	8.6
1	A	109	ALA	6.6
1	B	172	ASP	5.9
1	A	157	GLY	5.7
1	B	70	HIS	5.6
1	B	257	PRO	5.5
1	A	114	ILE	4.8
1	B	15	ASN	4.8
1	B	69	GLN	4.7
1	A	158	ALA	4.6
1	B	71	THR	4.5
1	A	212	PRO	4.4
1	A	192	LEU	4.4
1	A	210	GLU	4.4
1	A	111	VAL	4.3
1	B	129	LYS	4.3
1	B	67	MSE	4.3
1	A	146	LEU	4.2
1	A	155	GLN	4.0
1	A	140	MSE	3.9
1	A	189	SER	3.9
1	A	81	ARG	3.9
1	A	198	ARG	3.9

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Mol	Chain	Res	Type	RSRZ
1	A	195	LEU	3.9
1	A	162	ARG	3.9
1	A	54	GLU	3.8
1	A	218	MSE	3.8
1	B	54	GLU	3.8
1	A	148	PRO	3.7
1	A	172	ASP	3.7
1	B	73	VAL	3.7
1	A	193	TYR	3.6
1	A	153	ILE	3.6
1	A	243	GLU	3.6
1	B	153	ILE	3.5
1	B	243	GLU	3.5
1	B	140	MSE	3.5
1	A	71	THR	3.4
1	A	115	ARG	3.4
1	A	201	GLU	3.4
1	B	44	ARG	3.4
1	B	242	PHE	3.3
1	A	15	ASN	3.3
1	A	202	LYS	3.3
1	A	214	PHE	3.3
1	B	115	ARG	3.3
1	A	69	GLN	3.3
1	A	152	GLU	3.2
1	A	209	TYR	3.2
1	A	160	ASN	3.2
1	A	67	MSE	3.1
1	B	16	LEU	3.1
1	A	245	ILE	3.0
1	A	110	PRO	3.0
1	A	137	MSE	3.0
1	B	111	VAL	3.0
1	A	203	TYR	2.9
1	A	130	ASP	2.9
1	B	155	GLN	2.9
1	B	43	ALA	2.9
1	B	162	ARG	2.9
1	B	174	GLU	2.8
1	B	113	GLY	2.8
1	B	149	CYS	2.8
1	A	256	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	130	ASP	2.7
1	A	151	LYS	2.7
1	A	154	SER	2.7
1	A	206	GLU	2.7
1	B	218	MSE	2.7
1	A	199	PRO	2.7
1	A	161	GLN	2.6
1	A	26	LEU	2.6
1	B	250	ALA	2.6
1	B	51	LEU	2.6
1	B	165	VAL	2.6
1	A	211	ASN	2.5
1	B	128	MSE	2.5
1	B	122	VAL	2.5
1	A	14	ARG	2.5
1	A	100	SER	2.5
1	A	113	GLY	2.5
1	A	99	VAL	2.5
1	A	204	VAL	2.5
1	A	91	ASP	2.4
1	B	65	ALA	2.4
1	A	173	ALA	2.4
1	A	70	HIS	2.4
1	A	183	TYR	2.3
1	A	46	THR	2.3
1	B	154	SER	2.3
1	B	139	VAL	2.3
1	A	112	SER	2.3
1	A	128	MSE	2.3
1	A	145	SER	2.3
1	A	207	LYS	2.3
1	B	91	ASP	2.2
1	B	42	VAL	2.2
1	A	32	LEU	2.2
1	B	142	PRO	2.2
1	B	26	LEU	2.2
1	A	217	ASP	2.2
1	B	215	VAL	2.2
1	A	44	ARG	2.2
1	A	75	ASP	2.2
1	A	141	ILE	2.1
1	B	72	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	75	ASP	2.1
1	A	45	LEU	2.1
1	B	241	ASN	2.1
1	B	144	THR	2.1
1	A	233	LYS	2.1
1	A	48	THR	2.1
1	B	163	SER	2.1
1	B	195	LEU	2.0
1	A	219	VAL	2.0
1	B	114	ILE	2.0
1	B	152	GLU	2.0
1	A	253	TYR	2.0
1	B	156	TYR	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
2	ZN	A	258	1/1	0.33	0.13	71,71,71,71	0
4	ACY	B	259	4/4	0.22	-0.08	47,52,54,65	0
3	CL	A	259	1/1	0.13	-1.45	67,67,67,67	1
2	ZN	B	258	1/1	0.10	-2.38	35,35,35,35	0

6.5 Other polymers ⓘ

There are no such residues in this entry.