



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 09:56 PM EDT

PDB ID : 6S2Q
Title : Mycobacterial hydrolase 1
Authors : Cereija, T.B.; Vilela, F.; Macedo-Ribeiro, S.; Pereira, P.J.B.
Deposited on : 2019-06-21
Resolution : 2.50 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.20.1
EDS : 2.37.1
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) : 2.37.1

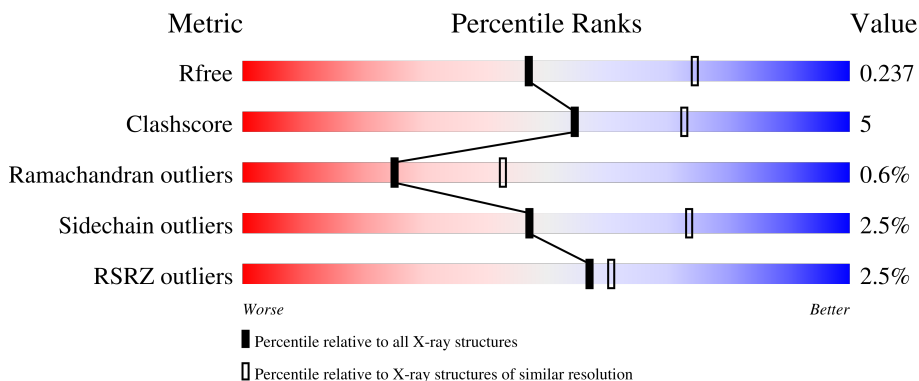
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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 of 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	236	 3% 77% 13% 9%
1	B	236	 4% 74% 14% 11%
1	C	236	 % 76% 11% 11%
1	D	236	 % 81% 7% 12%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard

residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	IOD	A	304	-	-	X	-
2	IOD	A	307	-	-	X	-
2	IOD	D	305	-	-	X	-

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 6738 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 Glucosyl-3-phosphoglycerate phosphatase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	214	Total 1678	C 1048	N 318	O 309	S 3	0	4	0
1	B	210	Total 1631	C 1018	N 308	O 302	S 3	0	2	0
1	C	210	Total 1639	C 1019	N 314	O 303	S 3	0	3	0
1	D	208	Total 1595	C 993	N 307	O 292	S 3	0	0	0

There are 52 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	224	LYS	-	expression tag	UNP P9WIC7
A	225	LEU	-	expression tag	UNP P9WIC7
A	226	ALA	-	expression tag	UNP P9WIC7
A	227	ALA	-	expression tag	UNP P9WIC7
A	228	ALA	-	expression tag	UNP P9WIC7
A	229	LEU	-	expression tag	UNP P9WIC7
A	230	GLU	-	expression tag	UNP P9WIC7
A	231	HIS	-	expression tag	UNP P9WIC7
A	232	HIS	-	expression tag	UNP P9WIC7
A	233	HIS	-	expression tag	UNP P9WIC7
A	234	HIS	-	expression tag	UNP P9WIC7
A	235	HIS	-	expression tag	UNP P9WIC7
A	236	HIS	-	expression tag	UNP P9WIC7
B	224	LYS	-	expression tag	UNP P9WIC7
B	225	LEU	-	expression tag	UNP P9WIC7
B	226	ALA	-	expression tag	UNP P9WIC7
B	227	ALA	-	expression tag	UNP P9WIC7
B	228	ALA	-	expression tag	UNP P9WIC7
B	229	LEU	-	expression tag	UNP P9WIC7
B	230	GLU	-	expression tag	UNP P9WIC7
B	231	HIS	-	expression tag	UNP P9WIC7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	232	HIS	-	expression tag	UNP P9WIC7
B	233	HIS	-	expression tag	UNP P9WIC7
B	234	HIS	-	expression tag	UNP P9WIC7
B	235	HIS	-	expression tag	UNP P9WIC7
B	236	HIS	-	expression tag	UNP P9WIC7
C	224	LYS	-	expression tag	UNP P9WIC7
C	225	LEU	-	expression tag	UNP P9WIC7
C	226	ALA	-	expression tag	UNP P9WIC7
C	227	ALA	-	expression tag	UNP P9WIC7
C	228	ALA	-	expression tag	UNP P9WIC7
C	229	LEU	-	expression tag	UNP P9WIC7
C	230	GLU	-	expression tag	UNP P9WIC7
C	231	HIS	-	expression tag	UNP P9WIC7
C	232	HIS	-	expression tag	UNP P9WIC7
C	233	HIS	-	expression tag	UNP P9WIC7
C	234	HIS	-	expression tag	UNP P9WIC7
C	235	HIS	-	expression tag	UNP P9WIC7
C	236	HIS	-	expression tag	UNP P9WIC7
D	224	LYS	-	expression tag	UNP P9WIC7
D	225	LEU	-	expression tag	UNP P9WIC7
D	226	ALA	-	expression tag	UNP P9WIC7
D	227	ALA	-	expression tag	UNP P9WIC7
D	228	ALA	-	expression tag	UNP P9WIC7
D	229	LEU	-	expression tag	UNP P9WIC7
D	230	GLU	-	expression tag	UNP P9WIC7
D	231	HIS	-	expression tag	UNP P9WIC7
D	232	HIS	-	expression tag	UNP P9WIC7
D	233	HIS	-	expression tag	UNP P9WIC7
D	234	HIS	-	expression tag	UNP P9WIC7
D	235	HIS	-	expression tag	UNP P9WIC7
D	236	HIS	-	expression tag	UNP P9WIC7

- Molecule 2 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	7	Total I 7 7	0	1
2	B	5	Total I 5 5	0	1
2	C	6	Total I 6 6	0	1
2	D	5	Total I 5 5	0	0

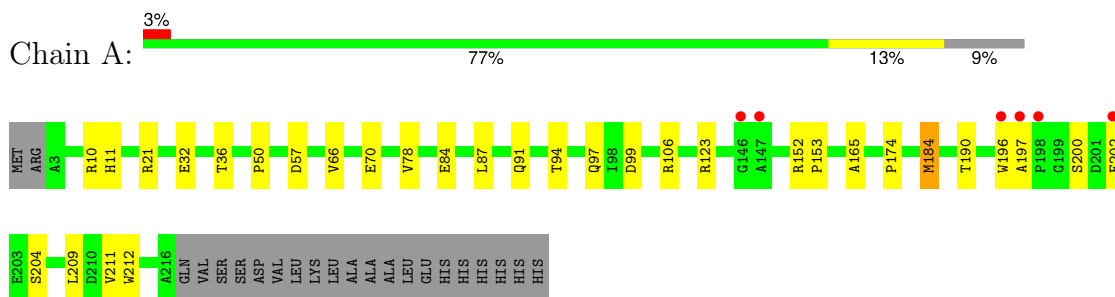
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	48	Total 48	O 48	0	0
3	B	17	Total 17	O 17	0	0
3	C	81	Total 81	O 81	0	0
3	D	26	Total 26	O 26	0	0

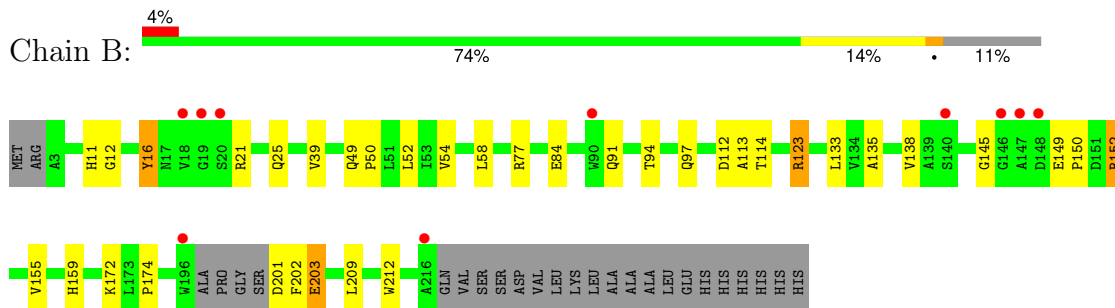
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide 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.

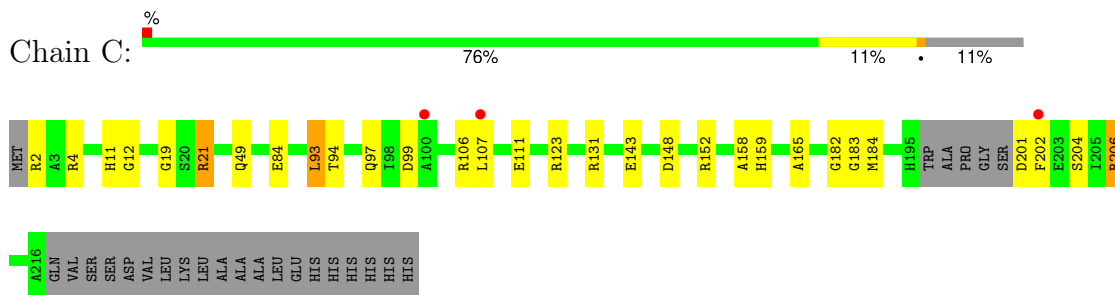
- Molecule 1: Glucosyl-3-phosphoglycerate phosphatase



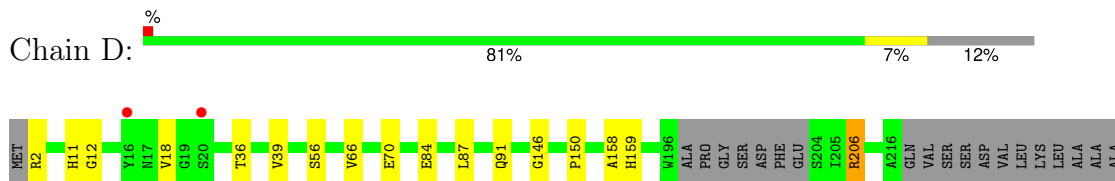
- Molecule 1: Glucosyl-3-phosphoglycerate phosphatase



- Molecule 1: Glucosyl-3-phosphoglycerate phosphatase



- Molecule 1: Glucosyl-3-phosphoglycerate phosphatase



LEU
GLU
HIS
HIS
HIS
HIS
HIS
HIS

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	96.95Å 46.10Å 103.25Å 90.00° 104.29° 90.00°	Depositor
Resolution (Å)	50.03 – 2.50 50.03 – 2.50	Depositor EDS
% Data completeness (in resolution range)	88.0 (50.03-2.50) 88.2 (50.03-2.50)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.50 (at 2.51Å)	Xtrriage
Refinement program	PHENIX (1.15.2_3472: ???)	Depositor
R, R_{free}	0.187 , 0.233 0.190 , 0.237	Depositor DCC
R_{free} test set	1325 reflections (4.81%)	wwPDB-VP
Wilson B-factor (Å ²)	38.4	Xtrriage
Anisotropy	0.329	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 50.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6738	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.55% 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: IOD

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	0/1717	0.66	0/2340
1	B	0.39	0/1666	0.60	0/2268
1	C	0.53	0/1672	0.75	1/2273 (0.0%)
1	D	0.40	0/1628	0.63	0/2216
All	All	0.45	0/6683	0.66	1/9097 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	93	LEU	CA-CB-CG	6.37	129.95	115.30

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	1678	0	1643	22	0
1	B	1631	0	1600	21	0
1	C	1639	0	1615	17	0
1	D	1595	0	1583	10	0
2	A	7	0	0	7	0
2	B	5	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	C	6	0	0	1	0
2	D	5	0	0	3	0
3	A	48	0	0	0	0
3	B	17	0	0	0	0
3	C	81	0	0	3	0
3	D	26	0	0	0	0
All	All	6738	0	6441	68	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 5.

All (68) 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:11:HIS:NE2	2:A:307:IOD:I	2.77	0.88
1:C:11:HIS:NE2	2:C:306:IOD:I	2.82	0.82
1:C:201[B]:ASP:N	1:C:204:SER:HG	1.77	0.81
1:C:2:ARG:HH21	1:C:4:ARG:HH22	1.29	0.80
1:B:21:ARG:HG2	1:B:94:THR:HG22	1.71	0.71
1:C:111:GLU:OE1	1:D:206:ARG:NE	2.22	0.70
1:D:11:HIS:NE2	2:D:305:IOD:I	2.91	0.65
1:C:2:ARG:NH2	1:C:4:ARG:HH22	1.95	0.65
1:A:21:ARG:NH2	2:A:304:IOD:I	3.00	0.64
1:B:25:GLN:N	1:B:91:GLN:OE1	2.30	0.63
1:A:200:SER:HB3	1:A:204:SER:OG	1.99	0.63
1:B:94:THR:OG1	1:B:97:GLN:HG3	1.99	0.62
1:A:94:THR:HG22	1:A:97:GLN:HG3	1.80	0.61
1:D:87:LEU:HB2	1:D:91:GLN:HG2	1.84	0.59
1:C:99:ASP:OD2	1:C:106:ARG:NH1	2.38	0.56
2:A:304:IOD:I	1:C:21:ARG:NH1	3.06	0.56
1:C:183:GLY:HA2	3:C:440:HOH:O	2.04	0.56
1:B:149:GLU:OE1	1:B:152:ARG:NH2	2.38	0.56
1:A:32:GLU:O	1:A:36:THR:HG23	2.05	0.55
1:C:84:GLU:HB2	1:C:159:HIS:CG	2.41	0.55
1:B:50:PRO:HB3	1:B:155:VAL:HG23	1.88	0.55
1:B:201[A]:ASP:OD1	1:B:202[A]:PHE:N	2.41	0.54
1:C:49:GLN:O	1:C:152:ARG:HD2	2.07	0.54
1:C:94:THR:HG22	1:C:97:GLN:HG3	1.89	0.53
1:B:201[B]:ASP:OD1	1:B:202[B]:PHE:N	2.43	0.52
1:A:174:PRO:HG2	1:B:174:PRO:HG2	1.91	0.52
1:D:84:GLU:OE2	2:D:305:IOD:I	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:LEU:HB2	1:A:91:GLN:HG2	1.93	0.51
1:B:84:GLU:OE2	2:B:304:IOD:I	2.99	0.50
1:C:206:ARG:HD3	3:C:441:HOH:O	2.13	0.48
1:A:106:ARG:NE	2:A:303:IOD:I	3.12	0.48
1:C:99:ASP:OD1	1:C:106:ARG:HD3	2.14	0.48
1:B:172:LYS:NZ	1:B:203:GLU:O	2.46	0.47
1:D:11:HIS:ND1	1:D:12:GLY:O	2.48	0.47
1:B:49:GLN:O	1:B:152:ARG:HG3	2.14	0.47
1:A:190:THR:HG23	1:A:211:VAL:O	2.15	0.47
1:C:11:HIS:ND1	1:C:12:GLY:O	2.48	0.47
1:A:99:ASP:OD1	1:A:106:ARG:NH1	2.48	0.46
2:A:304:IOD:I	1:C:19:GLY:HA3	2.86	0.46
1:B:16:TYR:CE2	1:B:21:ARG:HB2	2.51	0.46
1:A:84:GLU:OE2	2:A:307:IOD:I	3.03	0.46
1:C:123[A]:ARG:HD2	1:C:165:ALA:HB2	1.98	0.46
1:D:66:VAL:O	1:D:70:GLU:HG3	2.15	0.46
1:A:202[B]:PHE:N	1:A:202[B]:PHE:CD1	2.84	0.45
1:B:209:LEU:HD11	1:B:212:TRP:HB2	1.98	0.45
1:A:50:PRO:HA	1:A:153:PRO:HD2	1.98	0.45
1:A:123[A]:ARG:HD2	1:A:165:ALA:HB2	1.98	0.45
1:B:145:GLY:HA2	1:B:150:PRO:O	2.15	0.45
1:C:107:LEU:HG	3:C:418:HOH:O	2.17	0.45
1:B:77:ARG:HE	1:B:77:ARG:HB2	1.55	0.45
1:A:10:ARG:NH1	1:A:184:MET:O	2.50	0.44
1:A:50:PRO:O	1:A:152:ARG:NH2	2.28	0.44
1:A:209:LEU:HD21	1:A:212:TRP:HB2	2.00	0.44
1:A:66:VAL:O	1:A:70:GLU:HG3	2.17	0.43
1:B:58:LEU:HD12	1:B:159:HIS:CE1	2.53	0.43
1:B:135:ALA:O	1:B:138:VAL:HG12	2.18	0.43
1:B:112:ASP:OD1	1:B:114:THR:OG1	2.27	0.42
1:A:196:TRP:HD1	1:A:197:ALA:O	2.03	0.41
1:B:11:HIS:ND1	1:B:12:GLY:O	2.53	0.41
1:D:36:THR:O	1:D:39:VAL:HG12	2.20	0.41
1:A:123[A]:ARG:NH2	2:A:301:IOD:I	3.22	0.41
1:B:113:ALA:HB1	1:B:123:ARG:HB2	2.02	0.41
1:D:159:HIS:HB3	2:D:305:IOD:I	2.91	0.41
1:B:54:VAL:HG11	1:B:133:LEU:HD21	2.02	0.40
1:D:146:GLY:O	1:D:150:PRO:HB3	2.21	0.40
1:D:2:ARG:HB3	1:D:2:ARG:NH1	2.36	0.40
1:A:57:ASP:HB3	1:A:78:VAL:HG13	2.04	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	216/236 (92%)	207 (96%)	9 (4%)	0	100	100
1	B	207/236 (88%)	199 (96%)	7 (3%)	1 (0%)	29	48
1	C	208/236 (88%)	200 (96%)	4 (2%)	4 (2%)	8	13
1	D	204/236 (86%)	199 (98%)	4 (2%)	1 (0%)	29	48
All	All	835/944 (88%)	805 (96%)	24 (3%)	6 (1%)	25	39

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	202[A]	PHE
1	C	202[B]	PHE
1	B	16	TYR
1	C	158	ALA
1	D	158	ALA
1	C	182	GLY

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	167/182 (92%)	166 (99%)	1 (1%)	86	95
1	B	163/182 (90%)	158 (97%)	5 (3%)	40	67
1	C	164/182 (90%)	157 (96%)	7 (4%)	29	53
1	D	159/182 (87%)	156 (98%)	3 (2%)	57	80

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	653/728 (90%)	637 (98%)	16 (2%)	47 73

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	184	MET
1	B	39	VAL
1	B	52	LEU
1	B	123	ARG
1	B	152	ARG
1	B	203	GLU
1	C	21	ARG
1	C	93	LEU
1	C	131	ARG
1	C	143	GLU
1	C	148	ASP
1	C	184	MET
1	C	206	ARG
1	D	18	VAL
1	D	56	SER
1	D	206	ARG

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

Mol	Chain	Res	Type
1	B	17	ASN

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](#)

Of 23 ligands modelled in this entry, 23 are monoatomic - leaving 0 for Mogul analysis.

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.

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	214/236 (90%)	-0.15	6 (2%) 53 56	26, 40, 76, 96	0
1	B	210/236 (88%)	0.07	10 (4%) 30 32	35, 57, 82, 97	0
1	C	210/236 (88%)	-0.26	3 (1%) 75 77	19, 32, 64, 104	0
1	D	208/236 (88%)	-0.02	2 (0%) 82 84	31, 56, 79, 87	0
All	All	842/944 (89%)	-0.09	21 (2%) 57 61	19, 47, 78, 104	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	198	PRO	4.1
1	B	196	TRP	3.6
1	B	18	VAL	3.2
1	D	16	TYR	3.0
1	B	19	GLY	3.0
1	A	196	TRP	2.8
1	B	216	ALA	2.7
1	D	20	SER	2.7
1	C	202[A]	PHE	2.5
1	B	140	SER	2.5
1	A	147	ALA	2.5
1	A	146	GLY	2.4
1	C	100	ALA	2.4
1	A	197	ALA	2.3
1	B	20	SER	2.3
1	A	202[A]	PHE	2.3
1	C	107	LEU	2.3
1	B	148	ASP	2.2
1	B	147	ALA	2.1
1	B	90	TRP	2.0
1	B	146	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	IOD	B	305	1/1	0.92	0.11	86,86,86,86	1
2	IOD	A	304	1/1	0.94	0.10	67,67,67,67	0
2	IOD	D	304	1/1	0.94	0.06	94,94,94,94	1
2	IOD	C	303	1/1	0.96	0.05	77,77,77,77	0
2	IOD	C	305[B]	1/1	0.96	0.05	46,46,46,46	1
2	IOD	D	303	1/1	0.96	0.05	79,79,79,79	1
2	IOD	A	303	1/1	0.96	0.06	80,80,80,80	1
2	IOD	A	306[B]	1/1	0.97	0.04	54,54,54,54	1
2	IOD	D	301	1/1	0.97	0.04	69,69,69,69	0
2	IOD	D	302	1/1	0.98	0.06	70,70,70,70	0
2	IOD	A	302	1/1	0.98	0.04	82,82,82,82	0
2	IOD	B	301	1/1	0.98	0.04	63,63,63,63	0
2	IOD	B	303[B]	1/1	0.99	0.05	70,70,70,70	1
2	IOD	B	304	1/1	0.99	0.10	58,58,58,58	0
2	IOD	A	305	1/1	0.99	0.07	95,95,95,95	0
2	IOD	B	302	1/1	0.99	0.04	90,90,90,90	0
2	IOD	C	304	1/1	0.99	0.05	61,61,61,61	1
2	IOD	D	305	1/1	0.99	0.15	49,49,49,49	0
2	IOD	C	302	1/1	1.00	0.06	42,42,42,42	0
2	IOD	A	307	1/1	1.00	0.18	30,30,30,30	0
2	IOD	A	301	1/1	1.00	0.06	48,48,48,48	0
2	IOD	C	301	1/1	1.00	0.05	76,76,76,76	0
2	IOD	C	306	1/1	1.00	0.18	23,23,23,23	0

6.5 Other polymers [i](#)

There are no such residues in this entry.