



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 04:01 PM UTC

PDB ID : 6I3V / pdb_00006i3v
Title : x-ray structure of the human mitochondrial PRELID1 in complex with TRIAP1
Authors : Berry, J.L.; Miliara, X.; Morgan, R.M.L.; Matthews, S.J.
Deposited on : 2018-11-07
Resolution : 1.98 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

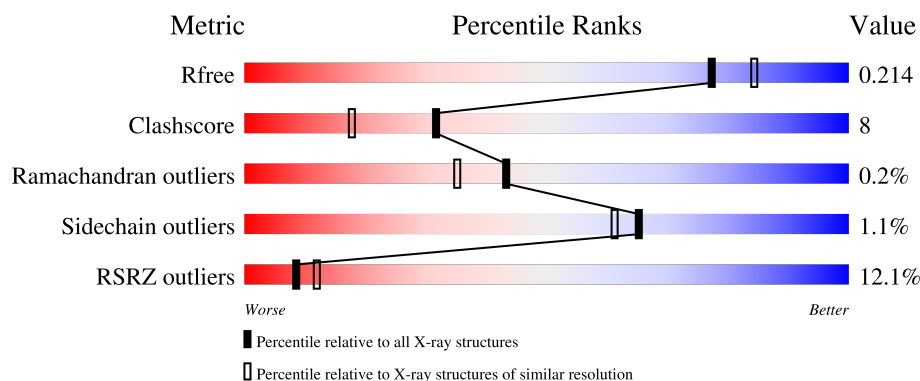
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.98 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}	180053	1506 (1.98-1.98)
Clashscore	190562	1534 (1.98-1.98)
Ramachandran outliers	187476	1518 (1.98-1.98)
Sidechain outliers	187428	1518 (1.98-1.98)
RSRZ outliers	180081	1506 (1.98-1.98)

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	B	182	3% 57% 41%
1	F	182	7% 84% 15%
2	A	69	16% 78% 20%
2	C	69	35% 84% 16%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3769 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 PRELI domain-containing protein 1, mitochondrial.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	F	182	Total	C	N	O	S	0	0	0
			1471	939	259	268	5			
1	B	108	Total	C	N	O	S	0	0	1
			866	557	149	157	3			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	4	HIS	-	expression tag	UNP Q9Y255
F	5	HIS	-	expression tag	UNP Q9Y255
F	6	HIS	-	expression tag	UNP Q9Y255
F	7	HIS	-	expression tag	UNP Q9Y255
F	8	HIS	-	expression tag	UNP Q9Y255
F	9	HIS	-	expression tag	UNP Q9Y255
F	10	SER	-	expression tag	UNP Q9Y255
F	11	ASP	-	expression tag	UNP Q9Y255
F	12	GLN	-	expression tag	UNP Q9Y255
F	124	SER	CYS	conflict	UNP Q9Y255
F	127	SER	CYS	conflict	UNP Q9Y255
B	4	HIS	-	expression tag	UNP Q9Y255
B	5	HIS	-	expression tag	UNP Q9Y255
B	6	HIS	-	expression tag	UNP Q9Y255
B	7	HIS	-	expression tag	UNP Q9Y255
B	8	HIS	-	expression tag	UNP Q9Y255
B	9	HIS	-	expression tag	UNP Q9Y255
B	10	SER	-	expression tag	UNP Q9Y255
B	11	ASP	-	expression tag	UNP Q9Y255
B	12	GLN	-	expression tag	UNP Q9Y255
B	124	SER	CYS	conflict	UNP Q9Y255
B	127	SER	CYS	conflict	UNP Q9Y255

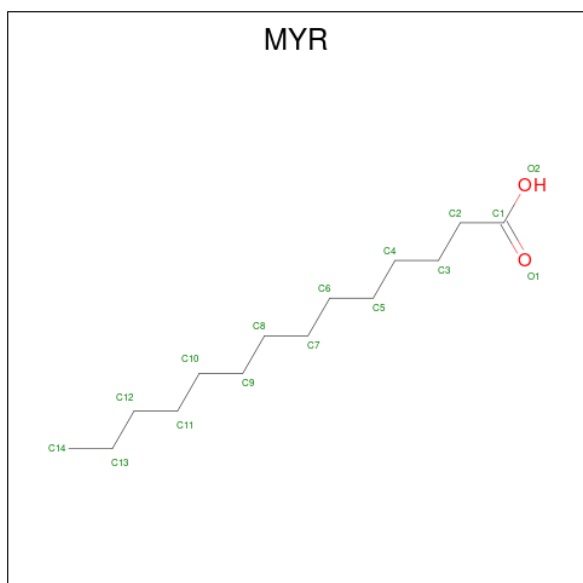
- Molecule 2 is a protein called TP53-regulated inhibitor of apoptosis 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A	69	Total	C	N	O	S	0	0	0
			548	344	91	106	7			
2	C	69	Total	C	N	O	S	0	0	0
			527	332	83	105	7			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	12	ASP	-	expression tag	UNP O43715
A	13	LYS	-	expression tag	UNP O43715
C	12	ASP	-	expression tag	UNP O43715
C	13	LYS	-	expression tag	UNP O43715

- Molecule 3 is MYRISTIC ACID (CCD ID: MYR) (formula: C₁₄H₂₈O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	F	1	Total	C	O	0	0
			16	14	2		
3	B	1	Total	C	O	0	0
			16	14	2		

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	F	3	Total	Cl	0	0
			3	3		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	9	Total 9	Cl 9	0	0
4	C	1	Total 1	Cl 1	0	0

- Molecule 5 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	3	Total 3	Na 3	0	0

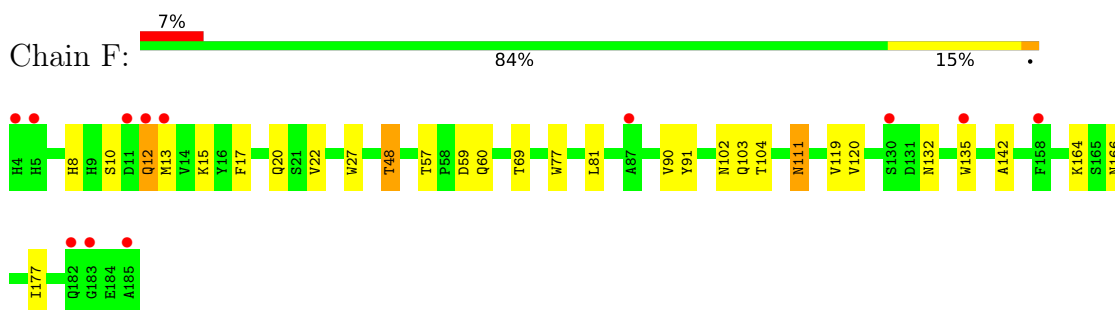
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	F	143	Total 143	O 143	0	0
6	B	108	Total 108	O 108	0	0
6	A	40	Total 40	O 40	0	0
6	C	18	Total 18	O 18	0	0

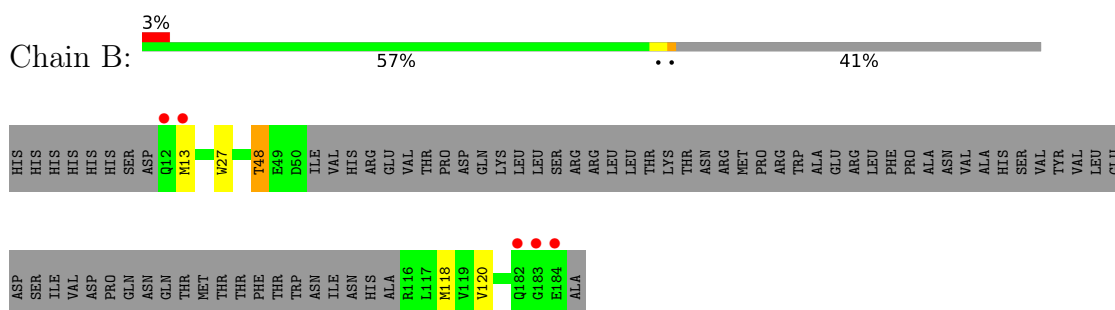
3 Residue-property plots [i](#)

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.

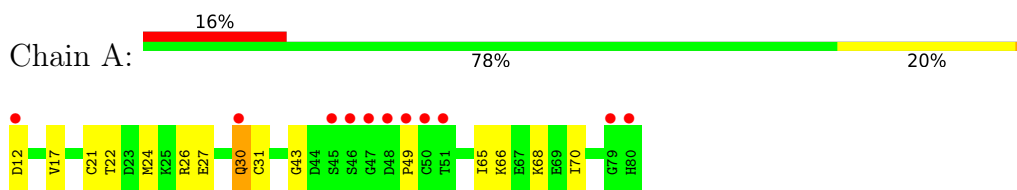
- Molecule 1: PRELI domain-containing protein 1, mitochondrial



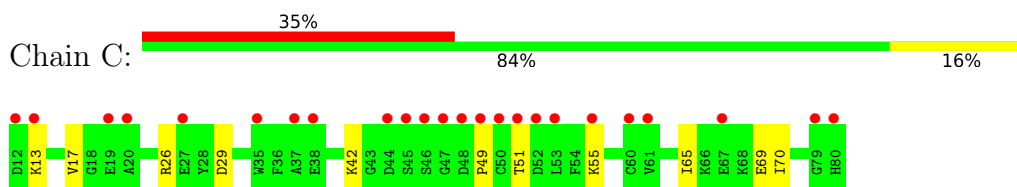
- Molecule 1: PRELI domain-containing protein 1, mitochondrial



- Molecule 2: TP53-regulated inhibitor of apoptosis 1



- Molecule 2: TP53-regulated inhibitor of apoptosis 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 63 2 2	Depositor
Cell constants a, b, c, α , β , γ	127.31Å 127.31Å 177.39Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	93.64 – 1.98 93.64 – 1.98	Depositor EDS
% Data completeness (in resolution range)	99.4 (93.64-1.98) 99.6 (93.64-1.98)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.73 (at 1.98Å)	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
R, R_{free}	0.205 , 0.245 (Not available) , 0.214	Depositor DCC
R_{free} test set	2956 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	30.0	Xtriage
Anisotropy	0.621	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 61.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3769	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.92% 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: MYR, NA, 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	B	0.76	0/901	0.74	0/1217
1	F	0.74	0/1513	0.81	0/2058
2	A	0.61	1/559 (0.2%)	0.71	1/747 (0.1%)
2	C	0.56	0/537	0.80	1/720 (0.1%)
All	All	0.70	1/3510 (0.0%)	0.77	2/4742 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	30	GLN	CB-CG	-6.61	1.32	1.52

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	30	GLN	CA-CB-CG	-7.36	99.37	114.10
2	C	49	PRO	N-CA-CB	5.72	109.25	103.25

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	B	866	0	853	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	1471	0	1400	25	0
2	A	548	0	506	12	0
2	C	527	0	463	11	0
3	B	16	0	27	2	0
3	F	16	0	27	3	0
4	B	9	0	0	1	0
4	C	1	0	0	0	0
4	F	3	0	0	0	0
5	B	3	0	0	0	0
6	A	40	0	0	4	0
6	B	108	0	0	1	5
6	C	18	0	0	2	0
6	F	143	0	0	7	4
All	All	3769	0	3276	57	6

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 8.

All (57) 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)
2:C:51:THR:HG22	2:C:55:LYS:NZ	1.90	0.87
2:C:51:THR:HG22	2:C:55:LYS:HZ1	1.40	0.83
1:F:132:ASN:HD22	1:F:135:TRP:CD1	2.01	0.78
1:F:22:VAL:HG11	1:F:135:TRP:HE3	1.48	0.78
2:C:13:LYS:NZ	2:C:29:ASP:OD2	2.20	0.74
2:A:66:LYS:NZ	6:A:101:HOH:O	2.15	0.71
2:C:55:LYS:H	2:C:55:LYS:HD2	1.58	0.68
2:A:12:ASP:N	6:A:103:HOH:O	2.27	0.66
2:A:30:GLN:HG3	2:A:31:CYS:N	2.14	0.63
2:C:51:THR:HG22	2:C:55:LYS:CE	2.30	0.61
4:B:207:CL:CL	6:B:395:HOH:O	2.53	0.59
1:B:118:MET:HG2	3:B:201:MYR:H122	1.85	0.59
1:F:166:ASN:ND2	6:F:304:HOH:O	2.36	0.58
2:C:42:LYS:NZ	6:C:202:HOH:O	2.34	0.57
1:F:12:GLN:O	1:F:13:MET:HB2	2.05	0.55
1:F:20:GLN:NE2	6:F:308:HOH:O	2.38	0.55
1:F:27:TRP:CE2	1:F:103:GLN:HG2	2.41	0.55
2:A:21:CYS:HA	2:A:24:MET:HE3	1.89	0.54
1:F:48:THR:HB	1:F:69:THR:HB	1.91	0.53
1:F:111:ASN:HD21	1:F:120:VAL:H	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:164:LYS:NZ	6:F:302:HOH:O	2.31	0.52
1:F:132:ASN:ND2	1:F:135:TRP:CD1	2.76	0.52
1:F:111:ASN:ND2	1:F:120:VAL:H	2.08	0.52
1:F:102:ASN:O	1:F:104:THR:HG23	2.11	0.51
1:F:8:HIS:ND1	6:F:303:HOH:O	2.35	0.51
1:F:111:ASN:HD21	1:F:119:VAL:HA	1.75	0.50
1:F:22:VAL:CG1	1:F:135:TRP:HE3	2.19	0.50
2:A:17:VAL:O	2:A:68:LYS:HE3	2.12	0.49
1:F:57:THR:OG1	1:F:59:ASP:OD1	2.27	0.48
2:A:27:GLU:HA	2:A:30:GLN:HE21	1.78	0.48
2:C:13:LYS:HE3	2:C:26:ARG:HA	1.95	0.48
1:B:48:THR:HG21	2:C:17:VAL:HB	1.96	0.47
2:C:65:ILE:HG23	2:C:70:ILE:HB	1.96	0.47
1:F:15:LYS:NZ	6:F:303:HOH:O	2.49	0.46
2:A:22:THR:O	2:A:26:ARG:HG3	2.16	0.45
1:F:111:ASN:HD22	1:F:111:ASN:H	1.65	0.45
1:F:60:GLN:HG2	6:F:307:HOH:O	2.17	0.44
1:F:132:ASN:HD22	1:F:135:TRP:NE1	2.16	0.44
3:F:201:MYR:H41	3:F:201:MYR:O2	2.18	0.44
3:F:201:MYR:H41	3:F:201:MYR:H72	1.75	0.44
2:A:30:GLN:H	2:A:30:GLN:HG2	1.63	0.44
2:A:49:PRO:HD3	6:A:106:HOH:O	2.17	0.44
2:C:69:GLU:OE2	6:C:201:HOH:O	2.21	0.43
1:F:91:TYR:CZ	2:A:70:ILE:HD12	2.53	0.43
2:A:65:ILE:HG23	2:A:70:ILE:HB	2.01	0.42
1:B:13:MET:HE3	1:B:13:MET:HA	2.01	0.42
2:A:43:GLY:HA2	6:A:114:HOH:O	2.20	0.42
1:F:17:PHE:HB3	1:F:142:ALA:HB3	2.02	0.42
1:F:10:SER:HB2	6:F:371:HOH:O	2.19	0.41
2:C:55:LYS:HD2	2:C:55:LYS:N	2.27	0.41
1:B:120:VAL:HB	3:B:201:MYR:H71	2.02	0.41
1:F:90:VAL:HG11	3:F:201:MYR:H102	2.03	0.41
1:F:77:TRP:O	1:F:81:LEU:HD13	2.21	0.41

All (6) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B:393:HOH:O	6:B:393:HOH:O[12_565]	1.71	0.49
6:F:419:HOH:O	6:B:376:HOH:O[9_555]	1.99	0.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:424:HOH:O	6:B:376:HOH:O[9_555]	2.14	0.06
6:F:409:HOH:O	6:B:388:HOH:O[9_555]	2.15	0.05
6:B:396:HOH:O	6:B:402:HOH:O[12_565]	2.16	0.04
6:F:383:HOH:O	6:F:413:HOH:O[9_555]	2.18	0.02

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	B	106/182 (58%)	105 (99%)	1 (1%)	0	100	100
1	F	180/182 (99%)	178 (99%)	1 (1%)	1 (1%)	21	12
2	A	67/69 (97%)	64 (96%)	3 (4%)	0	100	100
2	C	67/69 (97%)	64 (96%)	3 (4%)	0	100	100
All	All	420/502 (84%)	411 (98%)	8 (2%)	1 (0%)	43	35

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	F	12	GLN

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	B	94/165 (57%)	93 (99%)	1 (1%)	65	61

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	F	158/165 (96%)	155 (98%)	3 (2%)	50	44
2	A	58/61 (95%)	58 (100%)	0	100	100
2	C	53/61 (87%)	53 (100%)	0	100	100
All	All	363/452 (80%)	359 (99%)	4 (1%)	65	61

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	48	THR
1	F	111	ASN
1	F	177	ILE
1	B	48	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	F	85	ASN
1	F	88	HIS
1	F	111	ASN
1	F	166	ASN
2	A	30	GLN
2	C	62	GLN

5.3.3 RNA ⓘ

There are no RNA molecules 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 oligosaccharides in this entry.

5.6 Ligand geometry

Of 18 ligands modelled in this entry, 16 are monoatomic - leaving 2 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	$\# Z > 2$
3	MYR	B	201	-	15,15,15	0.76	0	15,15,15	1.10	2 (13%)
3	MYR	F	201	-	15,15,15	0.56	0	15,15,15	1.17	1 (6%)

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	MYR	B	201	-	-	4/13/13/13	-
3	MYR	F	201	-	-	5/13/13/13	-

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	201	MYR	O2-C1-C2	2.88	123.09	114.00
3	B	201	MYR	O2-C1-C2	2.10	120.65	114.00
3	B	201	MYR	O2-C1-O1	-2.06	118.03	123.33

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	201	MYR	C10-C11-C12-C13
3	B	201	MYR	C6-C7-C8-C9
3	F	201	MYR	C10-C11-C12-C13
3	F	201	MYR	C6-C7-C8-C9
3	F	201	MYR	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
3	F	201	MYR	C9-C10-C11-C12
3	B	201	MYR	C11-C12-C13-C14
3	B	201	MYR	C9-C10-C11-C12
3	F	201	MYR	O2-C1-C2-C3

There are no ring outliers.

2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	201	MYR	2	0
3	F	201	MYR	3	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	B	108/182 (59%)	0.22	5 (4%) 37 47	23, 36, 59, 142	0
1	F	182/182 (100%)	0.26	12 (6%) 24 32	23, 35, 65, 136	0
2	A	69/69 (100%)	0.92	11 (15%) 5 6	32, 48, 86, 124	0
2	C	69/69 (100%)	1.54	24 (34%) 1 1	47, 68, 122, 138	0
All	All	428/502 (85%)	0.56	52 (12%) 8 12	23, 41, 88, 142	0

All (52) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	185	ALA	6.9
2	A	47	GLY	5.8
2	C	48	ASP	5.8
1	F	135	TRP	4.9
2	C	49	PRO	4.5
2	A	79	GLY	4.1
1	B	12	GLN	4.1
1	F	4	HIS	4.1
1	B	183	GLY	4.1
2	A	80	HIS	3.9
2	C	80	HIS	3.8
1	F	183	GLY	3.7
1	B	13	MET	3.7
1	F	13	MET	3.5
2	A	46	SER	3.5
2	C	47	GLY	3.3
2	A	45	SER	3.3
2	A	51	THR	3.2
2	A	12	ASP	2.9
2	C	38	GLU	2.9
2	C	45	SER	2.7

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Mol	Chain	Res	Type	RSRZ
2	C	12	ASP	2.7
1	F	12	GLN	2.7
1	B	184	GLU	2.7
2	C	53	LEU	2.6
2	C	79	GLY	2.6
1	F	182	GLN	2.6
2	C	20	ALA	2.6
2	C	50	CYS	2.5
2	C	52	ASP	2.5
2	A	49	PRO	2.4
1	B	182	GLN	2.4
2	C	19	GLU	2.4
2	A	50	CYS	2.4
2	C	35	TRP	2.4
2	A	48	ASP	2.3
1	F	158	PHE	2.3
2	C	44	ASP	2.3
2	C	27	GLU	2.3
2	A	30	GLN	2.3
1	F	11	ASP	2.3
2	C	67	GLU	2.2
1	F	5	HIS	2.2
2	C	46	SER	2.2
2	C	13	LYS	2.2
2	C	61	VAL	2.1
1	F	130	SER	2.1
1	F	87	ALA	2.1
2	C	37	ALA	2.1
2	C	55	LYS	2.1
2	C	60	CYS	2.1
2	C	51	THR	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 oligosaccharides 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. 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
4	CL	B	205	1/1	0.61	0.15	109,109,109,109	0
5	NA	B	202	1/1	0.62	0.18	94,94,94,94	0
5	NA	B	203	1/1	0.68	0.20	99,99,99,99	0
4	CL	B	212	1/1	0.80	0.20	66,66,66,66	0
4	CL	B	209	1/1	0.82	0.17	100,100,100,100	0
4	CL	B	206	1/1	0.84	0.18	80,80,80,80	0
4	CL	B	207	1/1	0.86	0.17	64,64,64,64	0
4	CL	C	101	1/1	0.86	0.14	89,89,89,89	0
3	MYR	B	201	16/16	0.88	0.16	24,32,67,70	0
4	CL	B	208	1/1	0.88	0.17	93,93,93,93	0
4	CL	F	203	1/1	0.88	0.18	81,81,81,81	0
4	CL	B	210	1/1	0.88	0.21	68,68,68,68	0
3	MYR	F	201	16/16	0.89	0.19	27,40,73,75	0
4	CL	F	204	1/1	0.89	0.19	59,59,59,59	0
5	NA	B	204	1/1	0.90	0.13	68,68,68,68	0
4	CL	B	213	1/1	0.91	0.20	72,72,72,72	0
4	CL	F	202	1/1	0.92	0.31	75,75,75,75	0
4	CL	B	211	1/1	0.92	0.16	56,56,56,56	0

6.5 Other polymers

There are no such residues in this entry.