



wwPDB X-ray Structure Validation Summary Report ⓘ

Dec 16, 2023 – 05:59 PM EST

PDB ID : 4PJE
Title : Structure of human MR1-Ac-6-FP in complex with human MAIT B-B10 TCR
Authors : Birkinshaw, R.W.; Rossjohn, J.
Deposited on : 2014-05-12
Resolution : 1.95 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

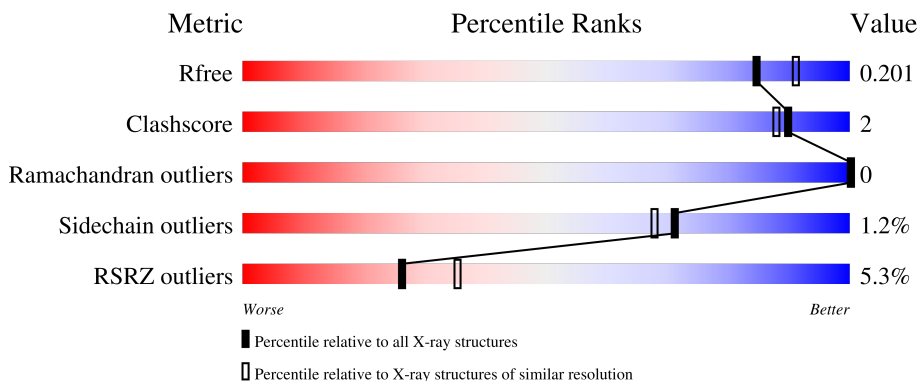
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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.



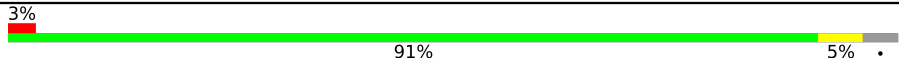
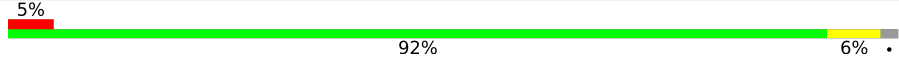
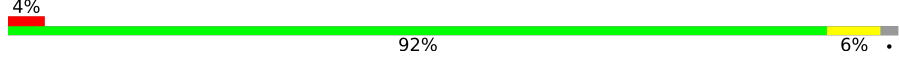
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2580 (1.96-1.96)
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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	271	 4% 92% 5%
1	C	271	 6% 89% 7%
2	B	100	 96%
2	D	100	 9% 94%
3	E	205	 11% 87% 5% 8%

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Mol	Chain	Length	Quality of chain
3	G	205	 3% 91% 5% •
4	F	245	 5% 92% 6% •
4	H	245	 4% 92% 6% •

2 Entry composition [i](#)

There are 10 unique types of molecules in this entry. The entry contains 14211 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 Major histocompatibility complex class I-related gene protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	261	2153	1381	370	392	10	0	0	0
1	C	252	2065	1323	358	374	10	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	initiating methionine	UNP Q95460
A	261	SER	CYS	engineered mutation	UNP Q95460
C	0	MET	-	initiating methionine	UNP Q95460
C	261	SER	CYS	engineered mutation	UNP Q95460

- Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	99	808	514	136	155	3	0	0	0
2	D	97	781	499	129	150	3	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	0	MET	-	initiating methionine	UNP P61769
D	0	MET	-	initiating methionine	UNP P61769

- Molecule 3 is a protein called TCR-alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	E	189	1471	934	235	292	10	0	1	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	G	197	1535	967	247	311	10	0	1	0

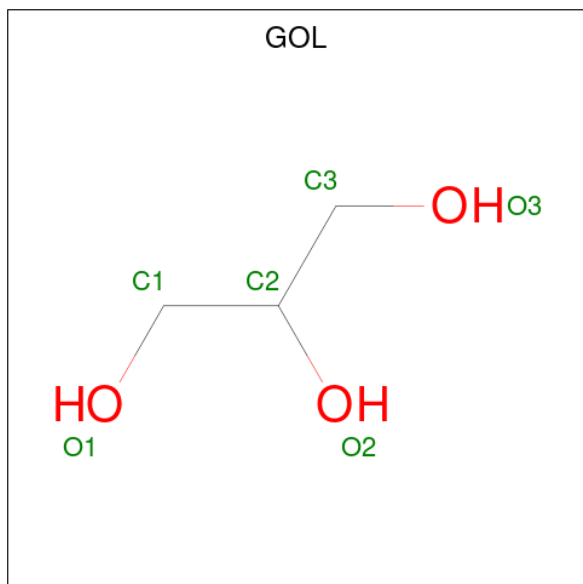
- Molecule 4 is a protein called TCR-beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	F	240	1950	1223	344	373	10	0	9	0
4	H	240	1888	1183	335	361	9	0	1	0

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Cl 1 1	0	0
5	C	1	Total Cl 1 1	0	0
5	F	1	Total Cl 1 1	0	0

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



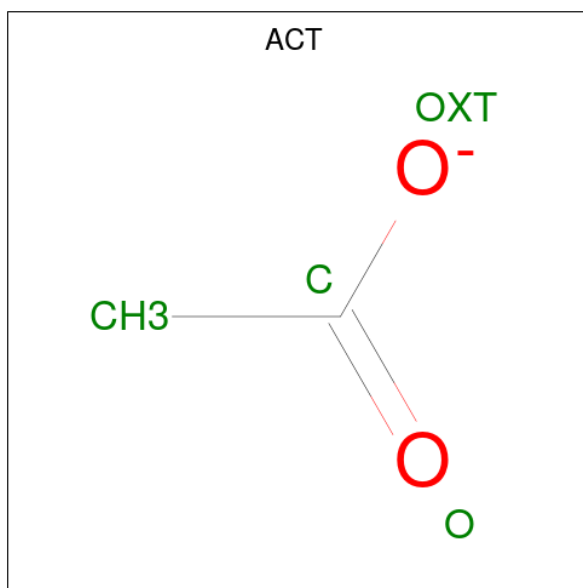
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
6	A	1	6	3	3	0	0

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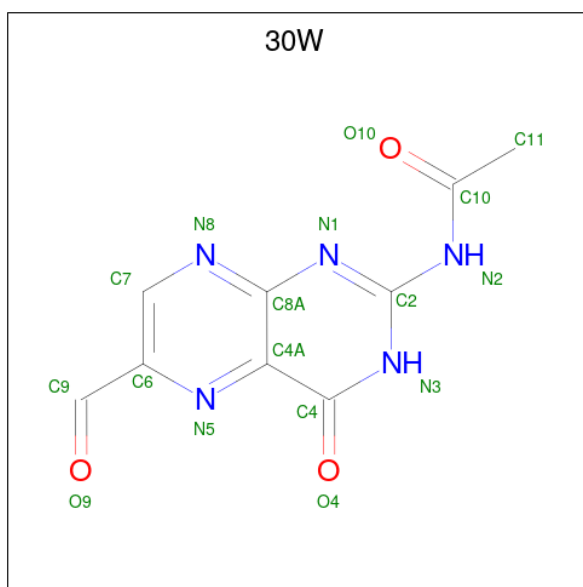
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			6	3	3		
6	B	1	Total	C	O	0	0
			6	3	3		
6	B	1	Total	C	O	0	0
			6	3	3		
6	D	1	Total	C	O	0	0
			6	3	3		
6	F	1	Total	C	O	0	0
			6	3	3		
6	F	1	Total	C	O	0	0
			6	3	3		
6	H	1	Total	C	O	0	0
			6	3	3		

- Molecule 7 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).



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

- Molecule 8 is N-(6-formyl-4-oxo-3,4-dihydropteridin-2-yl)acetamide (three-letter code: 30W) (formula: $C_9H_7N_5O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
8	A	1	Total	C	N	O	0	0
			16	9	5	2		
8	C	1	Total	C	N	O	0	0
			16	9	5	2		

- Molecule 9 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	F	1	Total	Na	0	0
			1	1		
9	H	1	Total	Na	0	0
			1	1		

- Molecule 10 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	265	Total	O	0	0
			265	265		
10	B	106	Total	O	0	0
			106	106		
10	C	216	Total	O	0	0
			216	216		
10	D	70	Total	O	0	0
			70	70		
10	E	146	Total	O	0	0
			146	146		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	F	222	Total 222	O 222	0	0
10	G	214	Total 214	O 214	0	0
10	H	224	Total 224	O 224	0	0

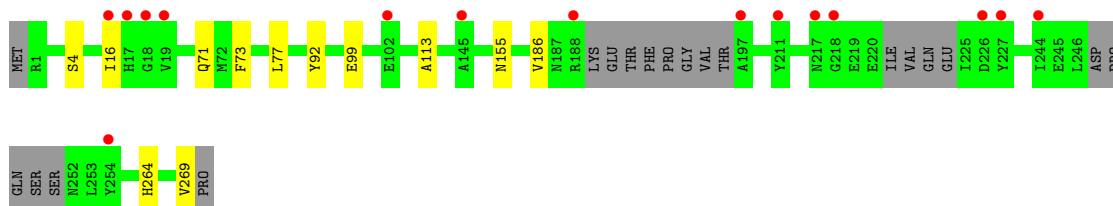
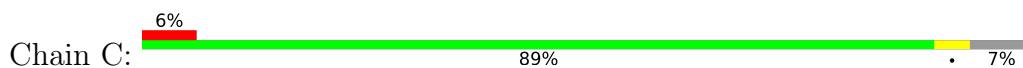
3 Residue-property plots [i](#)

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: Major histocompatibility complex class I-related gene protein



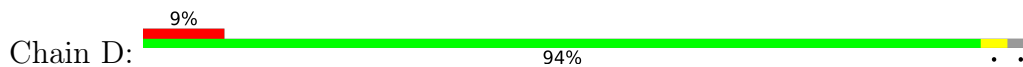
- Molecule 1: Major histocompatibility complex class I-related gene protein



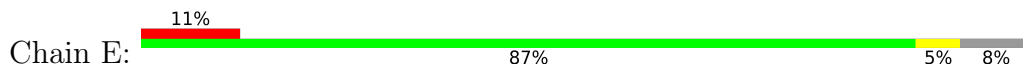
- Molecule 2: Beta-2-microglobulin

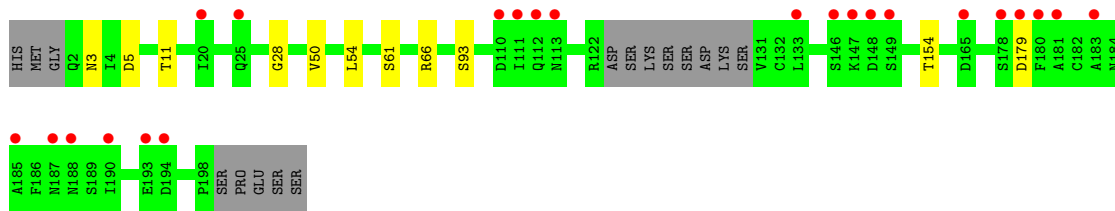


- Molecule 2: Beta-2-microglobulin

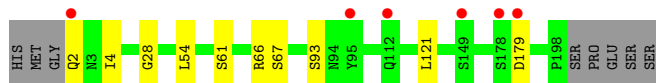
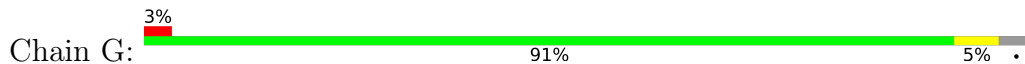


- Molecule 3: TCR-alpha

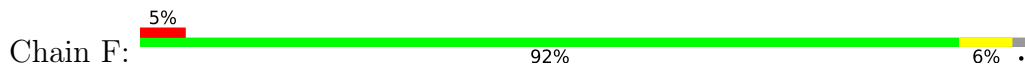




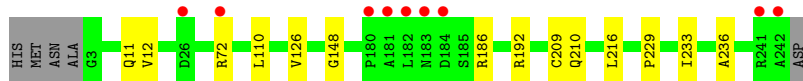
• Molecule 3: TCR-alpha



• Molecule 4: TCR-beta



• Molecule 4: TCR-beta



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	219.04Å 72.46Å 143.36Å 90.00° 104.50° 90.00°	Depositor
Resolution (Å)	28.55 – 1.95 28.44 – 1.95	Depositor EDS
% Data completeness (in resolution range)	97.8 (28.55-1.95) 97.7 (28.44-1.95)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.97 (at 1.95Å)	Xtrriage
Refinement program	BUSTER 2.10.0	Depositor
R, R_{free}	0.171 , 0.197 0.173 , 0.201	Depositor DCC
R_{free} test set	7803 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	27.4	Xtrriage
Anisotropy	0.508	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 51.8	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	0.96	EDS
Total number of atoms	14211	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 3.91% 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, ACT, NA, CL, 30W

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	0.55	0/2217	0.61	0/3012
1	C	0.52	0/2126	0.61	0/2888
2	B	0.49	0/831	0.62	0/1131
2	D	0.42	0/804	0.62	0/1097
3	E	0.50	0/1504	0.64	0/2042
3	G	0.53	0/1569	0.67	0/2129
4	F	0.50	0/2000	0.65	0/2723
4	H	0.51	0/1938	0.67	0/2640
All	All	0.51	0/12989	0.64	0/17662

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	2153	0	2046	9	0
1	C	2065	0	1942	7	0
2	B	808	0	746	1	0
2	D	781	0	712	1	0
3	E	1471	0	1366	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	G	1535	0	1426	5	0
4	F	1950	0	1829	11	0
4	H	1888	0	1769	10	0
5	A	1	0	0	0	0
5	C	1	0	0	0	0
5	F	1	0	0	0	0
6	A	12	0	16	0	0
6	B	12	0	16	0	0
6	D	6	0	8	1	0
6	F	12	0	16	2	0
6	H	6	0	8	0	0
7	A	8	0	6	0	0
7	E	4	0	3	0	0
8	A	16	0	6	0	0
8	C	16	0	6	0	0
9	F	1	0	0	0	0
9	H	1	0	0	0	0
10	A	265	0	0	1	0
10	B	106	0	0	0	0
10	C	216	0	0	0	0
10	D	70	0	0	1	0
10	E	146	0	0	0	0
10	F	222	0	0	0	0
10	G	214	0	0	0	0
10	H	224	0	0	2	0
All	All	14211	0	11921	44	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 2.

The worst 5 of 44 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)
3:G:66[B]:ARG:HH11	3:G:66[B]:ARG:HG2	1.39	0.85
1:A:65:LEU:HA	4:F:97:GLN:HE22	1.50	0.76
4:H:148:GLY:O	4:H:186[A]:ARG:HD2	1.96	0.67
4:H:72:ARG:HG2	4:H:72:ARG:HH11	1.62	0.64
4:F:118:ASN:HB3	6:F:303:GOL:H2	1.80	0.64

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	255/271 (94%)	251 (98%)	4 (2%)	0	100	100
1	C	244/271 (90%)	240 (98%)	4 (2%)	0	100	100
2	B	97/100 (97%)	96 (99%)	1 (1%)	0	100	100
2	D	95/100 (95%)	94 (99%)	1 (1%)	0	100	100
3	E	186/205 (91%)	182 (98%)	4 (2%)	0	100	100
3	G	196/205 (96%)	194 (99%)	2 (1%)	0	100	100
4	F	247/245 (101%)	244 (99%)	3 (1%)	0	100	100
4	H	239/245 (98%)	236 (99%)	3 (1%)	0	100	100
All	All	1559/1642 (95%)	1537 (99%)	22 (1%)	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	229/241 (95%)	227 (99%)	2 (1%)	78	77
1	C	216/241 (90%)	214 (99%)	2 (1%)	78	77
2	B	89/95 (94%)	87 (98%)	2 (2%)	52	44
2	D	85/95 (90%)	83 (98%)	2 (2%)	49	40
3	E	159/181 (88%)	158 (99%)	1 (1%)	86	85
3	G	169/181 (93%)	164 (97%)	5 (3%)	41	30

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	F	209/212 (99%)	208 (100%)	1 (0%)	88	88
4	H	202/212 (95%)	201 (100%)	1 (0%)	88	88
All	All	1358/1458 (93%)	1342 (99%)	16 (1%)	71	68

5 of 16 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	G	179	ASP
3	G	121	LEU
3	E	179	ASP
3	G	67	SER
2	D	70	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	111	GLN
4	F	97	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 18 ligands modelled in this entry, 5 are monoatomic - leaving 13 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
6	GOL	B	101	-	5,5,5	0.13	0	5,5,5	0.20	0
7	ACT	A	305	-	3,3,3	1.10	0	3,3,3	0.91	0
6	GOL	H	302	-	5,5,5	0.09	0	5,5,5	0.25	0
6	GOL	B	102	-	5,5,5	0.28	0	5,5,5	0.55	0
6	GOL	A	303	-	5,5,5	0.20	0	5,5,5	0.58	0
6	GOL	F	303	-	5,5,5	0.27	0	5,5,5	0.66	0
8	30W	A	306	1	16,17,18	0.60	0	18,24,25	2.84	3 (16%)
7	ACT	E	301	-	3,3,3	1.04	0	3,3,3	1.06	0
8	30W	C	302	1	16,17,18	0.60	1 (6%)	18,24,25	2.80	3 (16%)
6	GOL	F	304	-	5,5,5	0.15	0	5,5,5	0.50	0
7	ACT	A	304	-	3,3,3	1.10	0	3,3,3	0.95	0
6	GOL	A	302	-	5,5,5	0.22	0	5,5,5	0.52	0
6	GOL	D	101	-	5,5,5	0.09	0	5,5,5	0.39	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
6	GOL	B	101	-	-	0/4/4/4	-
6	GOL	H	302	-	-	1/4/4/4	-
6	GOL	B	102	-	-	0/4/4/4	-
6	GOL	A	303	-	-	2/4/4/4	-
6	GOL	F	303	-	-	2/4/4/4	-
8	30W	A	306	1	-	0/4/4/6	0/2/2/2
8	30W	C	302	1	-	0/4/4/6	0/2/2/2
6	GOL	F	304	-	-	4/4/4/4	-
6	GOL	A	302	-	-	0/4/4/4	-
6	GOL	D	101	-	-	4/4/4/4	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	C	302	30W	C2-N2	-2.01	1.33	1.37

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C	302	30W	N2-C2-N3	9.48	132.45	117.98
8	A	306	30W	N2-C2-N3	9.32	132.21	117.98
8	A	306	30W	N2-C2-N1	-6.38	109.05	117.72
8	C	302	30W	N2-C2-N1	-5.96	109.62	117.72
8	C	302	30W	C4A-C8A-N1	-2.86	119.09	123.18

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	D	101	GOL	O1-C1-C2-C3
6	F	304	GOL	O1-C1-C2-C3
6	F	304	GOL	C1-C2-C3-O3
6	F	304	GOL	O1-C1-C2-O2
6	A	303	GOL	O1-C1-C2-C3

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	F	303	GOL	2	0
6	D	101	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 [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	261/271 (96%)	-0.11	10 (3%) 40 50	18, 27, 51, 73	1 (0%)
1	C	252/271 (92%)	0.03	15 (5%) 21 30	20, 32, 58, 94	0
2	B	99/100 (99%)	-0.14	0 100 100	21, 33, 56, 65	0
2	D	97/100 (97%)	0.43	9 (9%) 8 14	26, 52, 82, 96	0
3	E	189/205 (92%)	0.43	23 (12%) 4 6	20, 39, 84, 109	0
3	G	197/205 (96%)	-0.07	6 (3%) 50 59	20, 30, 54, 71	6 (3%)
4	F	240/245 (97%)	-0.04	12 (5%) 28 39	19, 33, 65, 193	2 (0%)
4	H	240/245 (97%)	-0.14	9 (3%) 40 50	22, 31, 55, 78	4 (1%)
All	All	1575/1642 (95%)	0.02	84 (5%) 26 35	18, 32, 66, 193	13 (0%)

The worst 5 of 84 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	222	VAL	7.6
3	E	179	ASP	6.1
3	E	149	SER	5.9
4	H	182	LEU	5.4
3	E	178	SER	5.1

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
7	ACT	A	305	4/4	0.26	0.23	97,97,97,99	0
6	GOL	F	304	6/6	0.60	0.29	58,60,62,64	0
7	ACT	E	301	4/4	0.61	0.23	49,49,52,58	0
6	GOL	D	101	6/6	0.80	0.25	47,52,54,57	0
6	GOL	A	302	6/6	0.84	0.28	32,36,37,39	6
6	GOL	F	303	6/6	0.87	0.29	31,42,46,47	0
6	GOL	A	303	6/6	0.89	0.17	32,42,46,49	0
5	CL	A	301	1/1	0.92	0.06	59,59,59,59	0
6	GOL	H	302	6/6	0.92	0.10	35,36,38,39	6
7	ACT	A	304	4/4	0.95	0.14	40,62,64,64	0
9	NA	H	301	1/1	0.95	0.05	32,32,32,32	0
6	GOL	B	101	6/6	0.96	0.09	23,25,28,29	0
8	30W	C	302	16/17	0.97	0.18	23,26,28,29	0
6	GOL	B	102	6/6	0.97	0.13	23,24,28,32	6
5	CL	C	301	1/1	0.98	0.05	34,34,34,34	0
8	30W	A	306	16/17	0.98	0.13	23,24,25,27	0
9	NA	F	302	1/1	0.99	0.15	27,27,27,27	0
5	CL	F	301	1/1	0.99	0.05	41,41,41,41	0

6.5 Other polymers [i](#)

There are no such residues in this entry.