



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 07:14 AM UTC

PDB ID : 7BYD / pdb_00007byd
Title : Crystal structure of SN45 TCR in complex with lipopeptide-bound Mamu-B*05104
Authors : Morita, D.; Sugita, M.; Iwashita, C.
Deposited on : 2020-04-22
Resolution : 2.80 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
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

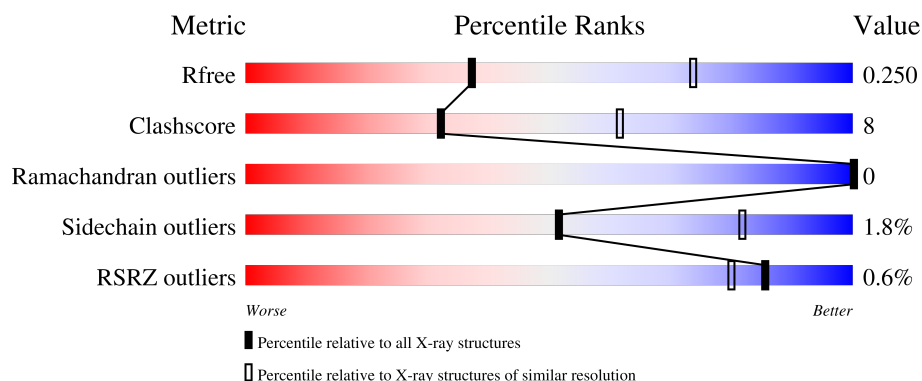
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

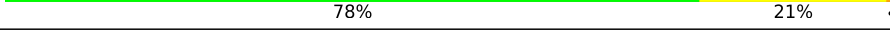
The reported resolution of this entry is 2.80 Å.

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	3866 (2.80-2.80)
Clashscore	190562	4276 (2.80-2.80)
Ramachandran outliers	187476	4196 (2.80-2.80)
Sidechain outliers	187428	4198 (2.80-2.80)
RSRZ outliers	180081	3869 (2.80-2.80)

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	276	
1	F	276	
2	B	100	
2	G	100	
3	C	4	

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Mol	Chain	Length	Quality of chain
3	H	4	 75% 25%
4	D	198	 2% 76% 19% . .
4	I	198	 89% 10% .
5	E	245	 2% 76% 19% . .
5	J	245	 80% 18% .

2 Entry composition

There are 12 unique types of molecules in this entry. The entry contains 13311 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 B protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	276	Total	C	N	O	S	0	2	0
			2276	1421	419	430	6			
1	F	276	Total	C	N	O	S	0	1	0
			2267	1416	418	427	6			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	128	GLU	ARG	engineered mutation	UNP B2ZHY7
A	177	GLU	LYS	engineered mutation	UNP B2ZHY7
A	223	GLU	ASP	engineered mutation	UNP B2ZHY7
F	128	GLU	ARG	engineered mutation	UNP B2ZHY7
F	177	GLU	LYS	engineered mutation	UNP B2ZHY7
F	223	GLU	ASP	engineered mutation	UNP B2ZHY7

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	100	Total	C	N	O	S	0	1	0
			838	532	145	157	4			
2	G	100	Total	C	N	O	S	0	0	0
			827	526	141	156	4			

- Molecule 3 is a protein called GLY-GLY-ALA-ILE.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	C	4	Total	C	N	O	0	0	0
			22	13	4	5			
3	H	4	Total	C	N	O	0	0	0
			22	13	4	5			

- Molecule 4 is a protein called SN45 T cell receptor alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	194	Total 1501	C 947	N 248	O 297	S 9	0	0	0
4	I	198	Total 1530	C 964	N 253	O 303	S 10	0	0	0

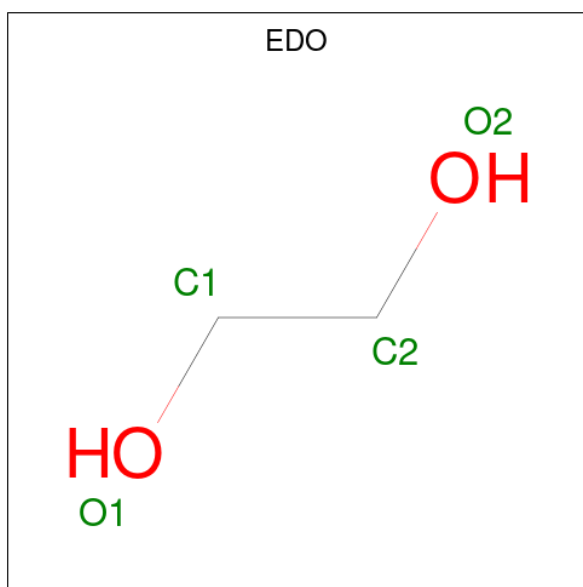
- Molecule 5 is a protein called SN45 T cell receptor beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	238	Total 1923	C 1227	N 331	O 357	S 8	0	0	0
5	J	245	Total 1980	C 1259	N 338	O 375	S 8	0	0	0

- Molecule 6 is IODIDE ION (CCD ID: IOD) (formula: I).

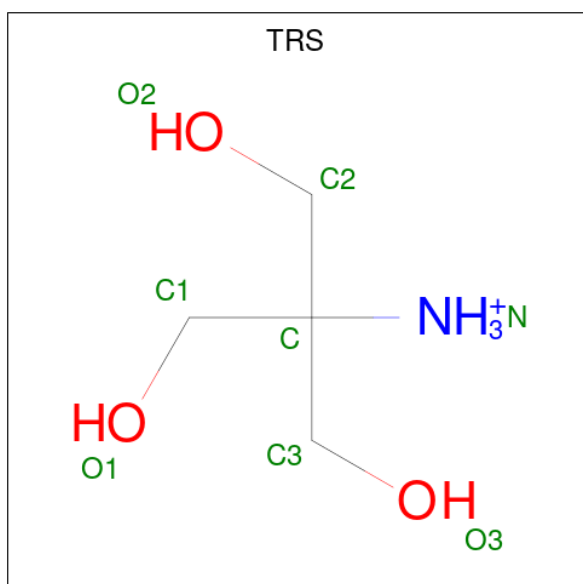
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	4	Total 4	I 4	0	0
6	B	2	Total 2	I 2	0	0
6	D	1	Total 1	I 1	0	0
6	E	2	Total 2	I 2	0	0
6	F	3	Total 3	I 3	0	0
6	G	1	Total 1	I 1	0	0
6	I	4	Total 4	I 4	0	0
6	J	2	Total 2	I 2	0	0

- Molecule 7 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	A	1	Total	C	O	0	0
			4	2	2		
7	F	1	Total	C	O	0	0
			4	2	2		
7	G	1	Total	C	O	0	0
			4	2	2		
7	I	1	Total	C	O	0	0
			4	2	2		

- Molecule 8 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (CCD ID: TRS) (formula: $C_4H_{12}NO_3$).

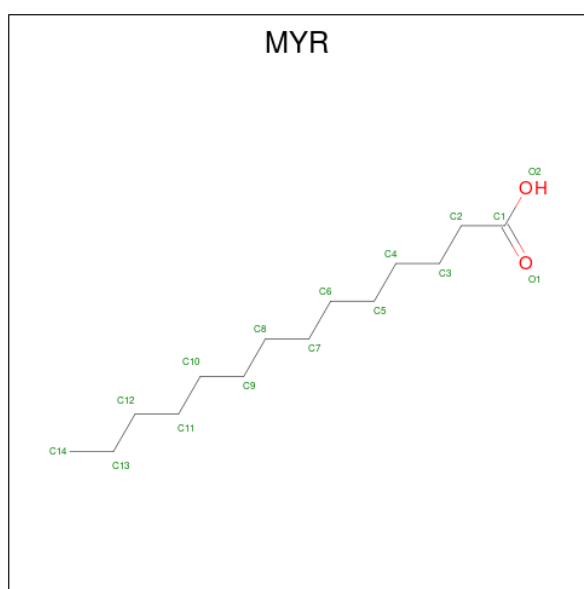


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
8	B	1	Total	C	N	O	0	0
			8	4	1	3		

- Molecule 9 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	B	1	Total	Ca	0	0
			1	1		

- Molecule 10 is MYRISTIC ACID (CCD ID: MYR) (formula: C₁₄H₂₈O₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	C	1	Total	C	O	0	0
			15	14	1		
10	H	1	Total	C	O	0	0
			15	14	1		

- Molecule 11 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
11	I	1	Total	Na	0	0
			1	1		

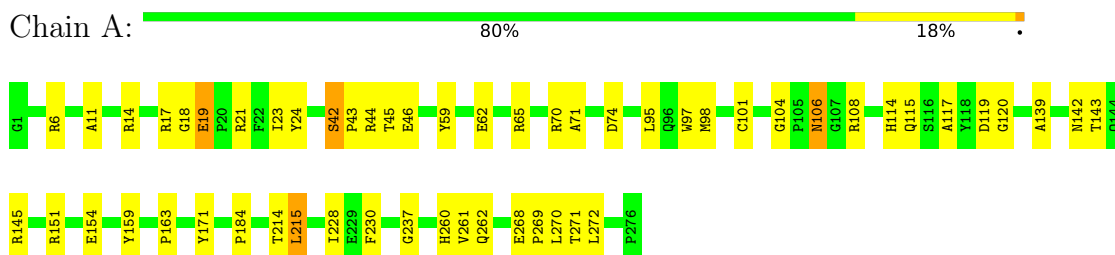
- Molecule 12 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
12	A	11	Total 11	O 11	0	0
12	B	9	Total 9	O 9	0	0
12	D	3	Total 3	O 3	0	0
12	F	4	Total 4	O 4	0	0
12	G	4	Total 4	O 4	0	0
12	I	8	Total 8	O 8	0	0
12	J	11	Total 11	O 11	0	0

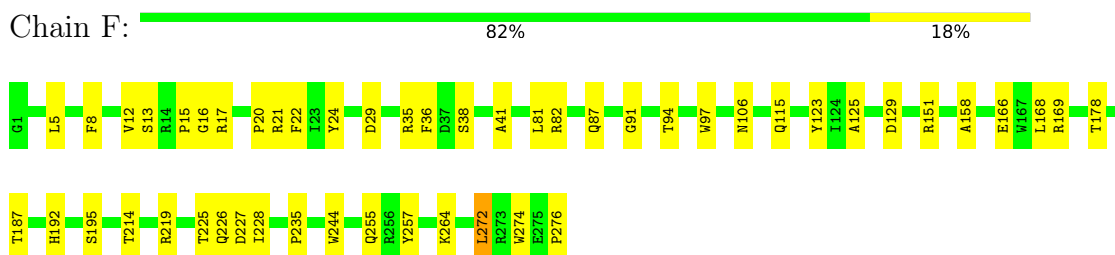
3 Residue-property plots

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.

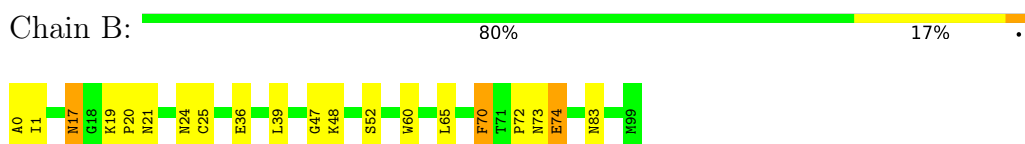
- Molecule 1: B protein



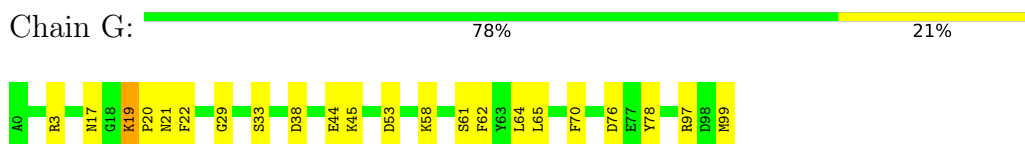
- Molecule 1: B protein



- Molecule 2: Beta-2-microglobulin



- Molecule 2: Beta-2-microglobulin



- Molecule 3: GLY-GLY-ALA-ILE

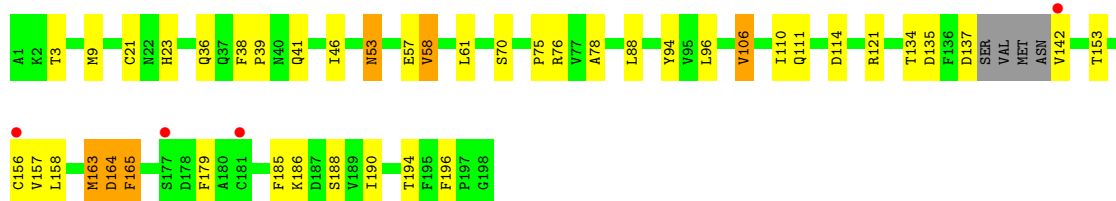
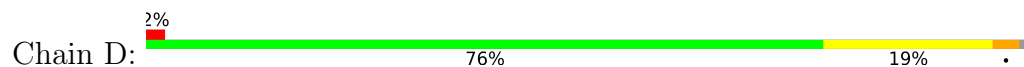




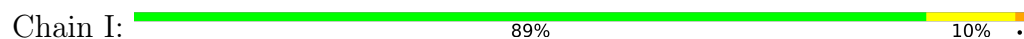
- Molecule 3: GLY-GLY-ALA-ILE



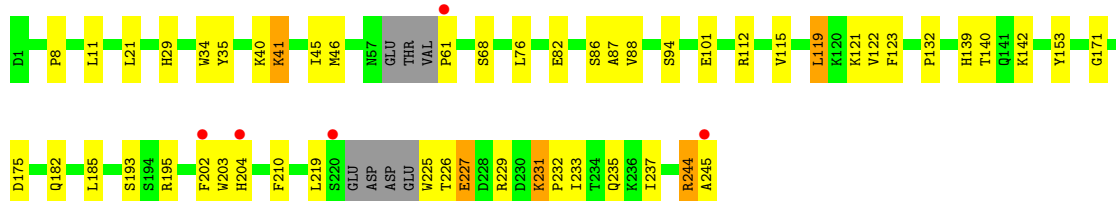
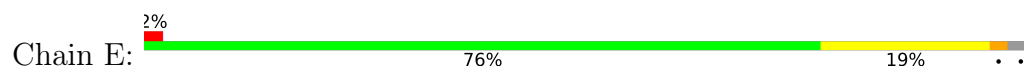
- Molecule 4: SN45 T cell receptor alpha chain



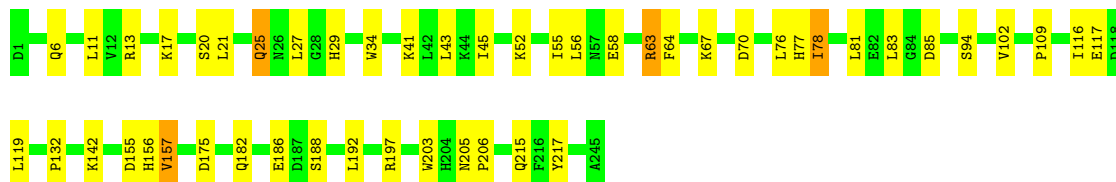
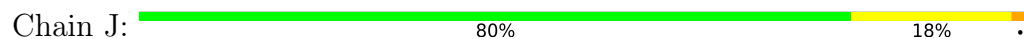
- Molecule 4: SN45 T cell receptor alpha chain



- Molecule 5: SN45 T cell receptor beta chain



- Molecule 5: SN45 T cell receptor beta chain



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	83.94Å 95.07Å 123.35Å 90.00° 90.89° 90.00°	Depositor
Resolution (Å)	41.96 – 2.80 41.96 – 2.80	Depositor EDS
% Data completeness (in resolution range)	99.8 (41.96-2.80) 99.7 (41.96-2.80)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.48 (at 2.81Å)	Xtriage
Refinement program	PHENIX 1.9_1692+SVN	Depositor
R, R_{free}	0.185 , 0.250 0.193 , 0.250	Depositor DCC
R_{free} test set	2404 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	51.1	Xtriage
Anisotropy	0.174	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 43.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.024 for h,-k,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	13311	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.46% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, EDO, MYR, IOD, NA, TRS

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	0.87	5/2344 (0.2%)	1.04	9/3185 (0.3%)
1	F	0.70	1/2335 (0.0%)	0.97	8/3173 (0.3%)
2	B	0.75	0/863	0.99	2/1167 (0.2%)
2	G	0.65	0/852	0.94	0/1153
3	C	1.67	0/21	0.68	0/25
3	H	1.60	0/21	1.05	0/25
4	D	0.81	3/1536 (0.2%)	1.13	14/2088 (0.7%)
4	I	0.77	1/1566 (0.1%)	1.06	4/2130 (0.2%)
5	E	0.78	1/1976 (0.1%)	1.05	11/2676 (0.4%)
5	J	0.83	2/2035 (0.1%)	0.98	4/2761 (0.1%)
All	All	0.79	13/13549 (0.1%)	1.02	52/18383 (0.3%)

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	41	GLN	C-N	-8.63	1.20	1.33
1	A	114	HIS	C-O	-6.01	1.17	1.23
4	D	38	PHE	C-N	5.86	1.41	1.33
1	F	29	ASP	C-O	-5.78	1.19	1.24
1	A	101	CYS	C-O	-5.70	1.17	1.23
4	I	36	GLN	C-O	-5.64	1.17	1.23
1	A	145	ARG	C-O	-5.60	1.17	1.24
4	D	76	ARG	CA-C	-5.40	1.47	1.53
1	A	215	LEU	C-O	-5.33	1.18	1.24
5	J	11	LEU	C-O	-5.23	1.17	1.23
5	E	87	ALA	C-O	-5.18	1.18	1.24
5	J	157	VAL	C-O	-5.11	1.18	1.23
1	A	115	GLN	C-O	-5.07	1.17	1.23

All (52) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	E	219	LEU	N-CA-C	9.01	123.61	110.28
5	J	41	LYS	N-CA-C	8.22	122.61	112.58
5	E	227	GLU	N-CA-C	8.20	120.90	110.24
4	D	165	PHE	N-CA-C	8.13	120.32	108.86
5	E	231	LYS	CA-C-N	7.06	128.66	119.84
5	E	231	LYS	C-N-CA	7.06	128.66	119.84
1	A	42	SER	CA-C-N	7.01	128.60	119.84
1	A	42	SER	C-N-CA	7.01	128.60	119.84
2	B	74	GLU	N-CA-C	7.01	121.42	113.01
1	F	17	ARG	N-CA-C	6.99	121.97	113.17
5	E	140	THR	N-CA-C	6.83	123.24	114.56
5	E	233	ILE	N-CA-C	-6.80	98.69	109.17
2	B	17	ASN	N-CA-C	6.70	120.34	110.30
5	E	41	LYS	N-CA-C	6.38	120.32	111.90
1	A	18	GLY	N-CA-C	6.37	123.50	115.21
1	A	115	GLN	N-CA-C	6.35	119.08	109.23
5	E	68	SER	CA-C-N	6.30	126.21	119.28
5	E	68	SER	C-N-CA	6.30	126.21	119.28
1	A	46	GLU	CA-C-N	6.29	126.05	119.76
1	A	46	GLU	C-N-CA	6.29	126.05	119.76
4	I	52	ALA	CB-CA-C	-6.26	109.37	116.63
4	I	128	THR	N-CA-C	-6.17	99.22	109.46
5	E	140	THR	CB-CA-C	-6.11	99.59	109.13
4	D	163	MET	N-CA-C	6.01	118.66	110.55
1	F	195	SER	N-CA-C	-6.00	100.46	108.19
4	D	164	ASP	N-CA-C	5.96	117.78	111.28
4	D	38	PHE	CA-C-N	-5.77	113.82	119.76
4	D	38	PHE	C-N-CA	-5.77	113.82	119.76
4	D	58	VAL	N-CA-C	5.66	116.68	111.81
4	D	185	PHE	CB-CA-C	-5.62	101.67	110.94
1	A	184	PRO	O-C-N	5.62	123.79	121.15
4	D	157	VAL	N-CA-C	5.55	115.94	108.17
1	F	192	HIS	CA-C-N	5.47	125.79	119.93
1	F	192	HIS	C-N-CA	5.47	125.79	119.93
1	F	8	PHE	CA-C-N	-5.46	117.94	121.65
1	F	8	PHE	C-N-CA	-5.46	117.94	121.65
4	D	76	ARG	N-CA-C	-5.42	98.19	107.23
4	D	75	PRO	N-CA-C	5.41	123.62	112.47
4	I	178	ASP	N-CA-C	-5.36	98.50	107.99
1	F	129	ASP	N-CA-C	-5.34	106.72	113.18
5	J	81	LEU	N-CA-C	5.31	117.79	110.35
5	J	55	ILE	N-CA-C	-5.27	107.69	112.12
5	E	226	THR	N-CA-C	5.26	117.76	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	101	CYS	N-CA-C	5.26	118.00	109.06
4	I	92	GLY	N-CA-C	-5.26	108.37	115.36
4	D	39	PRO	CA-C-O	-5.23	115.37	121.34
1	F	16	GLY	N-CA-C	5.23	119.47	112.77
4	D	179	PHE	N-CA-C	5.11	116.51	109.15
1	A	17	ARG	N-CA-C	-5.10	107.23	113.50
5	J	63	ARG	N-CA-C	-5.04	108.87	114.62
4	D	196	PHE	CA-C-N	-5.01	114.75	119.76
4	D	196	PHE	C-N-CA	-5.01	114.75	119.76

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	2276	0	2121	33	0
1	F	2267	0	2116	32	0
2	B	838	0	800	14	0
2	G	827	0	788	19	0
3	C	22	0	21	1	0
3	H	22	0	21	0	0
4	D	1501	0	1433	36	0
4	I	1530	0	1463	13	0
5	E	1923	0	1871	40	0
5	J	1980	0	1914	36	0
6	A	4	0	0	0	0
6	B	2	0	0	1	0
6	D	1	0	0	0	0
6	E	2	0	0	1	0
6	F	3	0	0	1	0
6	G	1	0	0	1	0
6	I	4	0	0	2	0
6	J	2	0	0	0	0
7	A	4	0	6	0	0
7	F	4	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	G	4	0	6	1	0
7	I	4	0	6	0	0
8	B	8	0	12	4	0
9	B	1	0	0	0	0
10	C	15	0	27	2	0
10	H	15	0	27	2	0
11	I	1	0	0	0	0
12	A	11	0	0	0	0
12	B	9	0	0	0	0
12	D	3	0	0	0	0
12	F	4	0	0	0	0
12	G	4	0	0	1	0
12	I	8	0	0	0	0
12	J	11	0	0	0	0
All	All	13311	0	12638	206	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 8.

All (206) 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)
5:E:244:ARG:HG2	5:E:244:ARG:HH11	1.23	1.02
5:E:225:TRP:CD1	5:E:231:LYS:HB3	2.02	0.94
1:F:187:THR:HG22	1:F:272:LEU:HD11	1.49	0.92
5:J:67:LYS:HD2	5:J:77:HIS:CD2	2.06	0.90
1:A:214:THR:OG1	1:A:262:GLN:HB3	1.72	0.90
5:E:101:GLU:N	5:E:101:GLU:OE1	2.09	0.84
1:F:187:THR:CG2	1:F:272:LEU:HD11	2.08	0.82
1:F:187:THR:HG22	1:F:272:LEU:CD1	2.12	0.80
2:B:72:PRO:HB2	6:B:101:IOD:I	2.52	0.79
2:B:52:SER:HB3	8:B:103:TRS:H22	1.65	0.79
1:A:228:ILE:HD12	1:A:228:ILE:O	1.83	0.79
4:I:36:GLN:HB2	4:I:46:ILE:HD11	1.66	0.77
4:D:164:ASP:O	4:D:165:PHE:CD1	2.38	0.76
2:G:65:LEU:HD23	7:G:102:EDO:H22	1.70	0.73
1:F:272:LEU:HD23	1:F:272:LEU:N	2.07	0.69
1:F:15:PRO:HG3	1:F:91:GLY:O	1.94	0.68
4:D:36:GLN:HB2	4:D:46:ILE:HD11	1.76	0.68
5:J:67:LYS:CD	5:J:77:HIS:HD2	2.08	0.66
1:F:187:THR:CG2	1:F:272:LEU:CD1	2.70	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:116:ILE:HD11	5:J:119:LEU:HD23	1.77	0.66
5:J:67:LYS:CD	5:J:77:HIS:CD2	2.78	0.66
5:E:244:ARG:HG2	5:E:244:ARG:NH1	1.98	0.65
1:A:106:ASN:HD22	1:A:108:ARG:HB2	1.60	0.65
5:J:64:PHE:CE2	5:J:78:ILE:HD12	2.32	0.65
4:I:15:GLN:O	4:I:77:VAL:HG22	1.98	0.64
2:B:48:LYS:O	2:B:48:LYS:HG2	1.97	0.63
8:B:103:TRS:O3	8:B:103:TRS:O2	2.13	0.62
1:A:214:THR:OG1	1:A:262:GLN:CB	2.46	0.62
4:D:163:MET:HE2	5:E:142:LYS:HE3	1.80	0.61
5:J:56:LEU:C	5:J:56:LEU:HD23	2.25	0.61
1:A:151:ARG:HE	1:A:154:GLU:HG3	1.67	0.60
4:D:142:VAL:O	4:D:142:VAL:HG13	2.01	0.60
5:J:52:LYS:HE2	5:J:70:ASP:HA	1.84	0.59
1:A:11:ALA:HB3	1:A:95:LEU:HB3	1.85	0.59
5:J:56:LEU:HD21	5:J:58:GLU:CG	2.33	0.59
5:E:225:TRP:NE1	5:E:231:LYS:HB3	2.17	0.59
4:D:61:LEU:HD11	4:D:70:SER:HB2	1.84	0.58
4:I:160:MET:HE2	5:J:197:ARG:HD3	1.85	0.58
4:D:186:LYS:HZ3	4:D:190:ILE:HG22	1.69	0.58
1:F:115:GLN:HG2	1:F:125:ALA:HB1	1.85	0.56
5:E:61:PRO:HG3	1:F:41:ALA:HB1	1.87	0.56
2:G:38:ASP:HB3	2:G:45:LYS:HG2	1.86	0.56
5:E:82:GLU:O	5:E:115:VAL:HG21	2.06	0.56
5:E:225:TRP:CG	5:E:231:LYS:HB3	2.38	0.56
4:D:88:LEU:HD22	4:D:96:LEU:HD22	1.88	0.56
5:E:29:HIS:HB3	5:E:94:SER:O	2.06	0.56
2:G:17:ASN:OD1	2:G:97:ARG:NH1	2.39	0.56
5:J:13:ARG:HH21	5:J:17:LYS:HB3	1.71	0.56
4:I:137:ASP:HB2	6:I:203:IOD:I	2.76	0.55
4:D:156:CYS:HB3	5:E:195:ARG:HH22	1.70	0.55
5:E:175:ASP:OD2	5:E:193:SER:OG	2.21	0.55
1:F:219:ARG:HD2	1:F:257:TYR:CZ	2.42	0.55
5:J:29:HIS:HB3	5:J:94:SER:O	2.06	0.54
4:D:57:GLU:HG2	4:D:58:VAL:HG13	1.89	0.54
5:J:155:ASP:OD1	5:J:155:ASP:N	2.39	0.54
4:D:121:ARG:HB2	4:D:121:ARG:NH1	2.23	0.54
4:D:3:THR:HB	4:D:21:CYS:SG	2.47	0.53
4:I:160:MET:HE1	5:J:142:LYS:HD3	1.90	0.53
1:A:117:ALA:HB2	2:B:60:TRP:CE2	2.43	0.53
1:A:270:LEU:HD22	1:A:272:LEU:HD22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:G:101:IOD:I	12:G:204:HOH:O	2.89	0.53
5:E:182:GLN:HB3	6:E:302:IOD:I	2.79	0.53
5:J:56:LEU:HD21	5:J:58:GLU:HG3	1.91	0.52
1:F:82:ARG:HG2	1:F:87:GLN:HB2	1.92	0.52
4:D:53:ASN:C	4:D:53:ASN:HD22	2.18	0.51
1:A:6:ARG:HD3	1:A:98:MET:HE3	1.92	0.51
1:A:45:THR:HG23	10:C:101:MYR:H132	1.93	0.51
1:A:139:ALA:O	1:A:142:ASN:HB2	2.11	0.51
5:J:132:PRO:HD2	5:J:203:TRP:CZ2	2.46	0.51
4:D:158:LEU:HD11	5:E:171:GLY:C	2.35	0.51
5:J:25:GLN:HG2	5:J:27:LEU:H	1.76	0.51
4:I:12:TYR:O	4:I:15:GLN:HG2	2.11	0.51
5:J:56:LEU:HD21	5:J:58:GLU:HG2	1.93	0.50
2:B:24:ASN:HB3	2:B:65:LEU:HD11	1.93	0.50
5:J:34:TRP:O	5:J:45:ILE:HD12	2.11	0.50
4:D:134:THR:HG22	4:D:135:ASP:CG	2.36	0.50
5:E:244:ARG:NH1	5:E:244:ARG:CG	2.72	0.50
2:G:19:LYS:HD3	2:G:19:LYS:C	2.37	0.50
1:A:59:TYR:HH	1:A:171:TYR:HH	1.57	0.50
4:D:186:LYS:NZ	4:D:190:ILE:HG22	2.25	0.50
1:A:119:ASP:HB3	2:B:0:ALA:HA	1.94	0.49
1:A:237:GLY:HA2	8:B:103:TRS:H11	1.93	0.49
4:D:78:ALA:O	4:D:106:VAL:HG11	2.12	0.49
1:A:65:ARG:HD2	4:D:94:TYR:OH	2.12	0.49
2:G:70:PHE:CE1	2:G:78:TYR:CZ	3.01	0.48
1:F:166:GLU:OE1	1:F:169:ARG:NH1	2.46	0.48
2:G:33:SER:HB3	2:G:62:PHE:CZ	2.48	0.48
5:J:67:LYS:HD2	5:J:77:HIS:NE2	2.27	0.48
4:D:53:ASN:ND2	4:D:53:ASN:H	2.11	0.48
1:F:81:LEU:HD21	1:F:123:TYR:CZ	2.47	0.48
4:I:3:THR:HB	4:I:21:CYS:SG	2.53	0.48
1:F:22:PHE:HB2	1:F:38:SER:HB3	1.96	0.48
1:F:35:ARG:HD3	2:G:53:ASP:OD2	2.14	0.48
2:B:21:ASN:HB3	2:B:70:PHE:CE1	2.49	0.48
1:A:70:ARG:NH2	1:A:74:ASP:OD1	2.45	0.47
4:D:53:ASN:ND2	4:D:53:ASN:N	2.61	0.47
5:E:121:LYS:HE3	5:E:153:TYR:CE2	2.49	0.47
1:F:228:ILE:HD12	1:F:228:ILE:O	2.14	0.47
5:J:63:ARG:NH2	5:J:85:ASP:OD2	2.47	0.47
1:A:268:GLU:HB2	1:A:269:PRO:HD2	1.97	0.47
5:J:20:SER:HB2	5:J:77:HIS:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:187:THR:HG21	1:F:272:LEU:HD11	1.95	0.47
5:E:88:VAL:HG22	5:E:112:ARG:HG2	1.97	0.47
1:A:151:ARG:HA	1:A:151:ARG:HD2	1.54	0.47
1:A:159:TYR:CD1	1:A:163:PRO:HG2	2.50	0.47
4:D:186:LYS:O	4:D:186:LYS:HG3	2.14	0.47
1:F:272:LEU:N	1:F:272:LEU:CD2	2.78	0.46
1:A:120:GLY:HA3	2:B:1:ILE:HG13	1.97	0.46
8:B:103:TRS:HO2	8:B:103:TRS:HO3	1.54	0.46
5:E:112:ARG:HB3	5:E:112:ARG:NH2	2.30	0.46
4:I:152:ILE:HG22	4:I:153:THR:O	2.15	0.46
2:G:70:PHE:HE1	2:G:78:TYR:CZ	2.33	0.46
1:A:106:ASN:ND2	1:A:108:ARG:HB2	2.29	0.46
1:F:151:ARG:HA	1:F:151:ARG:HD2	1.28	0.46
2:B:25:CYS:HB2	2:B:39:LEU:HD21	1.98	0.45
5:E:34:TRP:HB3	5:E:46:MET:HE3	1.98	0.45
4:I:33:MET:HE2	5:J:102:VAL:HG21	1.98	0.45
4:D:190:ILE:HD11	4:D:194:THR:HG21	1.97	0.45
4:D:57:GLU:H	4:D:57:GLU:CD	2.25	0.45
2:G:3:ARG:HB3	2:G:29:GLY:O	2.17	0.45
2:G:29:GLY:HA2	2:G:61:SER:HB2	1.99	0.45
4:D:153:THR:HG21	5:E:193:SER:OG	2.17	0.45
5:E:121:LYS:O	5:E:123:PHE:HD1	1.99	0.45
5:E:202:PHE:HE2	5:E:210:PHE:HE1	1.65	0.45
4:D:53:ASN:HD22	4:D:53:ASN:H	1.65	0.44
1:F:274:TRP:O	1:F:276:PRO:HD3	2.18	0.44
5:J:6:GLN:HB2	5:J:109:PRO:HD2	1.99	0.44
1:F:272:LEU:HD23	1:F:272:LEU:H	1.81	0.44
5:J:13:ARG:NH2	5:J:17:LYS:HB3	2.32	0.44
1:F:5:LEU:HB2	1:F:168:LEU:HD13	1.99	0.44
4:D:121:ARG:HB2	4:D:121:ARG:HH11	1.82	0.44
5:E:21:LEU:HB2	5:E:76:LEU:HB3	2.00	0.44
2:G:70:PHE:CE1	2:G:78:TYR:CE1	3.06	0.44
1:F:12:VAL:HG13	1:F:94:THR:HG22	1.99	0.44
1:A:104:GLY:C	1:A:106:ASN:H	2.26	0.44
5:E:35:TYR:CZ	5:E:45:ILE:HD13	2.53	0.44
5:E:40:LYS:C	5:E:41:LYS:HG2	2.43	0.44
5:J:20:SER:HB2	5:J:77:HIS:ND1	2.33	0.44
5:J:175:ASP:HB2	5:J:192:LEU:HD12	1.99	0.44
5:E:8:PRO:HG2	5:E:11:LEU:HD13	2.00	0.43
5:E:122:VAL:O	5:E:232:PRO:HG2	2.18	0.43
1:F:158:ALA:HB1	6:I:202:IOD:I	2.88	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:9:MET:HB2	4:D:9:MET:HE3	1.74	0.43
5:E:132:PRO:HD2	5:E:203:TRP:CZ2	2.53	0.43
5:J:156:HIS:HB3	5:J:217:TYR:HB2	2.00	0.43
4:D:110:ILE:HG13	4:D:137:ASP:HA	2.01	0.43
4:D:158:LEU:HD11	5:E:171:GLY:O	2.19	0.43
5:E:86:SER:OG	5:E:115:VAL:HG22	2.19	0.43
1:F:97:TRP:CZ3	10:H:101:MYR:H71	2.54	0.43
5:E:202:PHE:HE2	5:E:210:PHE:CE1	2.37	0.43
2:B:36:GLU:HB3	2:B:83:ASN:HB2	2.00	0.43
5:E:204:HIS:CD2	5:E:245:ALA:HB3	2.54	0.43
1:F:255:GLN:NE2	1:F:274:TRP:O	2.52	0.43
2:G:19:LYS:HD3	2:G:20:PRO:N	2.33	0.43
4:D:53:ASN:HD22	4:D:53:ASN:N	2.17	0.42
2:G:21:ASN:OD1	2:G:22:PHE:N	2.45	0.42
2:G:64:LEU:HD23	2:G:64:LEU:HA	1.83	0.42
1:A:143:THR:OG1	3:C:5:ILE:HG23	2.20	0.42
2:B:19:LYS:HA	2:B:20:PRO:HD3	1.90	0.42
1:F:20:PRO:HG3	6:F:303:IOD:I	2.89	0.42
1:F:235:PRO:HG2	2:G:65:LEU:HD22	2.01	0.42
4:I:145:SER:HA	4:I:187:ASP:OD2	2.20	0.42
4:D:186:LYS:HZ2	4:D:190:ILE:H	1.66	0.42
5:E:11:LEU:HD12	5:E:11:LEU:HA	1.92	0.42
1:F:106:ASN:OD1	1:F:106:ASN:N	2.47	0.42
5:E:21:LEU:HD12	5:E:76:LEU:HD23	2.02	0.42
5:J:205:ASN:HA	5:J:206:PRO:HD3	1.86	0.42
1:A:19:GLU:OE2	1:A:19:GLU:HA	2.19	0.42
4:D:134:THR:HG22	4:D:135:ASP:N	2.35	0.42
5:E:119:LEU:HD13	5:E:119:LEU:N	2.35	0.42
5:J:21:LEU:HD12	5:J:76:LEU:HD23	2.02	0.42
5:J:6:GLN:CB	5:J:109:PRO:HD2	2.50	0.42
5:J:157:VAL:HA	5:J:215:GLN:O	2.20	0.42
1:A:228:ILE:HD13	1:A:230:PHE:CE2	2.54	0.42
1:A:260:HIS:CE1	1:A:271:THR:HG23	2.54	0.42
2:B:17:ASN:OD1	2:B:73:ASN:HA	2.20	0.41
2:G:33:SER:HB3	2:G:62:PHE:CE2	2.55	0.41
4:D:186:LYS:C	4:D:188:SER:H	2.28	0.41
4:D:190:ILE:HG13	4:D:194:THR:OG1	2.20	0.41
5:E:185:LEU:HD22	2:G:44:GLU:HB2	2.02	0.41
1:A:62:GLU:HG3	1:A:65:ARG:NH1	2.35	0.41
2:B:47:GLY:HA2	5:J:186:GLU:HG2	2.02	0.41
4:I:17:VAL:CG2	4:I:77:VAL:HG11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:42:SER:HA	1:A:43:PRO:HD2	1.73	0.41
4:D:111:GLN:H	4:D:111:GLN:HG2	1.62	0.41
5:E:235:GLN:OE1	5:E:237:ILE:HD11	2.20	0.41
2:G:76:ASP:HB3	2:G:78:TYR:CE1	2.54	0.41
4:D:114:ASP:OD1	5:E:139:HIS:NE2	2.54	0.41
1:A:97:TRP:CH2	10:C:101:MYR:H71	2.55	0.41
5:E:112:ARG:HB3	5:E:112:ARG:HH21	1.86	0.41
5:E:227:GLU:HG2	5:E:229:ARG:CZ	2.51	0.41
1:F:226:GLN:O	1:F:227:ASP:HB2	2.20	0.41
5:J:76:LEU:HD12	5:J:76:LEU:HA	1.86	0.41
1:A:120:GLY:HA3	2:B:1:ILE:CG1	2.51	0.41
1:F:13:SER:OG	1:F:15:PRO:HD3	2.21	0.41
4:D:121:ARG:HH11	4:D:121:ARG:CB	2.34	0.41
1:A:24:TYR:OH	1:A:71:ALA:HA	2.20	0.40
10:H:101:MYR:H32	10:H:101:MYR:H61	1.63	0.40
4:I:48:GLN:NE2	5:J:102:VAL:HG13	2.36	0.40
1:A:215:LEU:HD12	1:A:261:VAL:HG22	2.02	0.40
1:F:24:TYR:HB2	1:F:36:PHE:HB3	2.02	0.40
1:F:244:TRP:HE1	2:G:99:MET:CG	2.34	0.40
5:J:83:LEU:HD21	5:J:117:GLU:HG3	2.04	0.40
1:A:21:ARG:HE	1:A:23:ILE:HD11	1.86	0.40
4:I:193:ASP:OD1	4:I:193:ASP:N	2.45	0.40
5:J:182:GLN:HB2	5:J:188:SER:HB2	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	276/276 (100%)	270 (98%)	6 (2%)	0	100	100
1	F	275/276 (100%)	269 (98%)	6 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	99/100 (99%)	98 (99%)	1 (1%)	0	100	100
2	G	98/100 (98%)	97 (99%)	1 (1%)	0	100	100
3	C	2/4 (50%)	2 (100%)	0	0	100	100
3	H	2/4 (50%)	2 (100%)	0	0	100	100
4	D	190/198 (96%)	184 (97%)	6 (3%)	0	100	100
4	I	196/198 (99%)	189 (96%)	7 (4%)	0	100	100
5	E	232/245 (95%)	225 (97%)	7 (3%)	0	100	100
5	J	243/245 (99%)	239 (98%)	4 (2%)	0	100	100
All	All	1613/1646 (98%)	1575 (98%)	38 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	231/229 (101%)	227 (98%)	4 (2%)	53	83
1	F	230/229 (100%)	224 (97%)	6 (3%)	40	75
2	B	94/93 (101%)	92 (98%)	2 (2%)	47	79
2	G	93/93 (100%)	91 (98%)	2 (2%)	45	78
3	C	1/1 (100%)	1 (100%)	0	100	100
3	H	1/1 (100%)	0	1 (100%)	0	0
4	D	169/173 (98%)	166 (98%)	3 (2%)	51	82
4	I	173/173 (100%)	171 (99%)	2 (1%)	63	87
5	E	211/218 (97%)	209 (99%)	2 (1%)	70	89
5	J	218/218 (100%)	215 (99%)	3 (1%)	59	85
All	All	1421/1428 (100%)	1396 (98%)	25 (2%)	51	82

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	ARG
1	A	19	GLU
1	A	44	ARG
1	A	106	ASN
2	B	70	PHE
2	B	74	GLU
4	D	23	HIS
4	D	53	ASN
4	D	106	VAL
5	E	119	LEU
5	E	244	ARG
1	F	21	ARG
1	F	178	THR
1	F	214	THR
1	F	225	THR
1	F	264	LYS
1	F	272	LEU
2	G	19	LYS
2	G	58	LYS
3	H	5	ILE
4	I	33	MET
4	I	54	ILE
5	J	25	GLN
5	J	43	LEU
5	J	78	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (25) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	106	ASN
1	A	115	GLN
1	A	180	GLN
2	B	13	HIS
2	B	83	ASN
4	D	5	GLN
4	D	24	ASN
4	D	53	ASN
4	D	111	GLN
5	E	213	GLN
1	F	32	GLN
1	F	86	ASN
1	F	180	GLN
1	F	181	HIS

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Mol	Chain	Res	Type
1	F	191	HIS
1	F	218	GLN
1	F	255	GLN
2	G	13	HIS
4	I	15	GLN
4	I	151	HIS
5	J	18	ASN
5	J	25	GLN
5	J	37	GLN
5	J	77	HIS
5	J	205	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 28 ligands modelled in this entry, 21 are monoatomic - leaving 7 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	$\# Z > 2$
10	MYR	H	101	3	13,14,15	0.41	0	12,13,15	0.87	0
10	MYR	C	101	3	13,14,15	0.33	0	12,13,15	0.66	0
7	EDO	F	304	-	3,3,3	0.47	0	2,2,2	0.38	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
8	TRS	B	103	-	7,7,7	0.55	0	9,9,9	1.23	0
7	EDO	A	305	-	3,3,3	0.59	0	2,2,2	0.29	0
7	EDO	G	102	-	3,3,3	0.39	0	2,2,2	0.51	0
7	EDO	I	205	-	3,3,3	0.50	0	2,2,2	0.49	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
10	MYR	H	101	3	-	6/12/12/13	-
10	MYR	C	101	3	-	6/12/12/13	-
7	EDO	F	304	-	-	0/1/1/1	-
8	TRS	B	103	-	-	2/9/9/9	-
7	EDO	A	305	-	-	0/1/1/1	-
7	EDO	G	102	-	-	1/1/1/1	-
7	EDO	I	205	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
10	H	101	MYR	C3-C4-C5-C6
7	G	102	EDO	O1-C1-C2-O2
10	C	101	MYR	C4-C5-C6-C7
10	H	101	MYR	C11-C10-C9-C8
10	C	101	MYR	C3-C4-C5-C6
10	C	101	MYR	C5-C6-C7-C8
10	H	101	MYR	C4-C5-C6-C7
7	I	205	EDO	O1-C1-C2-O2
10	H	101	MYR	C2-C3-C4-C5
10	C	101	MYR	C11-C12-C13-C14
10	C	101	MYR	C10-C11-C12-C13
10	H	101	MYR	C6-C7-C8-C9
8	B	103	TRS	N-C-C1-O1
10	C	101	MYR	C1-C2-C3-C4
10	H	101	MYR	C1-C2-C3-C4

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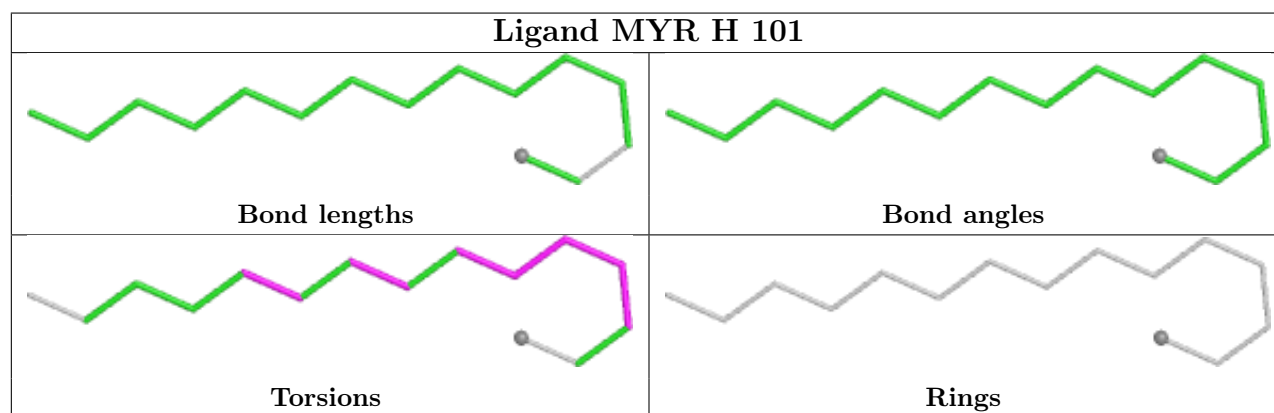
Mol	Chain	Res	Type	Atoms
8	B	103	TRS	C2-C-C1-O1

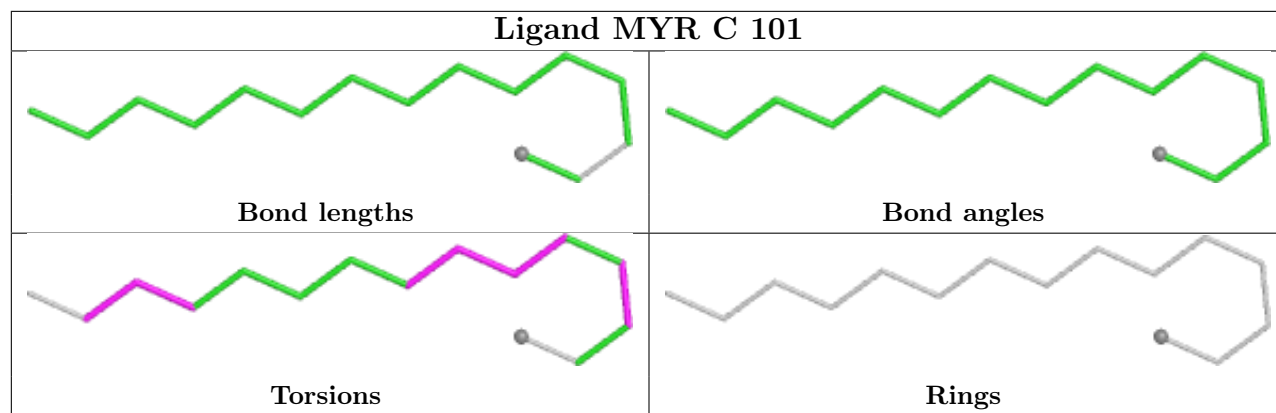
There are no ring outliers.

4 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
10	H	101	MYR	2	0
10	C	101	MYR	2	0
8	B	103	TRS	4	0
7	G	102	EDO	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





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	276/276 (100%)	-0.45	0	100	100	13, 33, 67, 88	2 (0%)
1	F	276/276 (100%)	-0.10	0	100	100	22, 46, 85, 101	1 (0%)
2	B	100/100 (100%)	-0.59	0	100	100	13, 27, 60, 83	1 (1%)
2	G	100/100 (100%)	-0.32	0	100	100	25, 42, 71, 87	0
3	C	4/4 (100%)	-0.12	0	100	100	37, 39, 39, 41	0
3	H	4/4 (100%)	0.56	0	100	100	50, 52, 56, 57	0
4	D	194/198 (97%)	0.28	4 (2%)	63	54	23, 61, 99, 120	0
4	I	198/198 (100%)	-0.50	0	100	100	15, 31, 62, 87	0
5	E	238/245 (97%)	0.11	5 (2%)	63	54	28, 57, 98, 123	0
5	J	245/245 (100%)	-0.46	0	100	100	16, 34, 60, 101	0
All	All	1635/1646 (99%)	-0.23	9 (0%)	85	80	13, 41, 88, 123	4 (0%)

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	E	245	ALA	3.3
4	D	181	CYS	2.6
4	D	142	VAL	2.5
5	E	204	HIS	2.4
5	E	202	PHE	2.2
5	E	220	SER	2.1
4	D	177	SER	2.1
5	E	61	PRO	2.1
4	D	156	CYS	2.1

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 ⓘ

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.

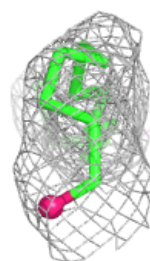
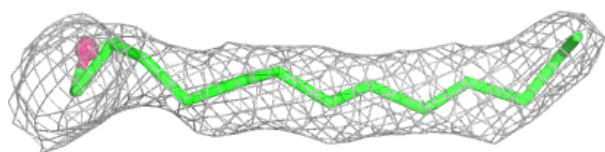
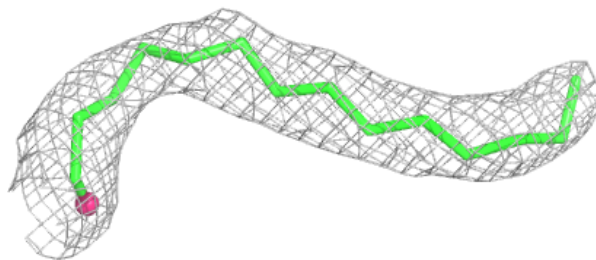
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
6	IOD	F	303	1/1	0.82	0.15	147,147,147,147	0
7	EDO	F	304	4/4	0.84	0.12	43,46,54,60	0
7	EDO	A	305	4/4	0.87	0.11	33,39,39,40	0
7	EDO	G	102	4/4	0.87	0.15	31,38,38,48	0
7	EDO	I	205	4/4	0.90	0.11	26,29,34,42	0
8	TRS	B	103	8/8	0.92	0.10	23,36,49,60	0
10	MYR	C	101	15/16	0.93	0.12	17,24,34,37	0
6	IOD	E	301	1/1	0.94	0.11	120,120,120,120	0
10	MYR	H	101	15/16	0.94	0.11	25,37,50,52	0
6	IOD	E	302	1/1	0.95	0.10	114,114,114,114	0
9	CA	B	104	1/1	0.95	0.04	58,58,58,58	0
6	IOD	I	202	1/1	0.96	0.14	103,103,103,103	0
6	IOD	A	303	1/1	0.96	0.16	108,108,108,108	0
6	IOD	A	302	1/1	0.96	0.13	107,107,107,107	0
11	NA	I	206	1/1	0.96	0.10	22,22,22,22	0
6	IOD	J	302	1/1	0.97	0.08	79,79,79,79	0
6	IOD	F	301	1/1	0.98	0.04	72,72,72,72	0
6	IOD	I	204	1/1	0.98	0.14	96,96,96,96	0
6	IOD	B	102	1/1	0.98	0.06	62,62,62,62	0
6	IOD	G	101	1/1	0.98	0.11	81,81,81,81	0
6	IOD	A	304	1/1	0.99	0.09	82,82,82,82	0
6	IOD	I	201	1/1	0.99	0.07	56,56,56,56	0
6	IOD	B	101	1/1	0.99	0.07	73,73,73,73	0
6	IOD	I	203	1/1	0.99	0.10	77,77,77,77	0
6	IOD	A	301	1/1	0.99	0.03	59,59,59,59	0
6	IOD	J	301	1/1	0.99	0.04	47,47,47,47	0
6	IOD	F	302	1/1	0.99	0.10	81,81,81,81	0
6	IOD	D	201	1/1	0.99	0.08	85,85,85,85	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different

orientation to approximate a three-dimensional view.

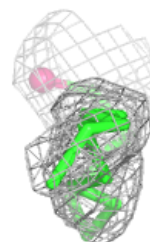
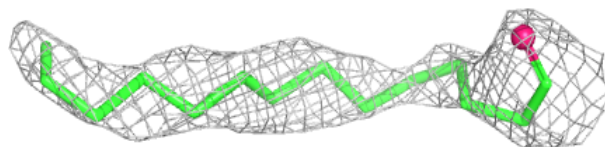
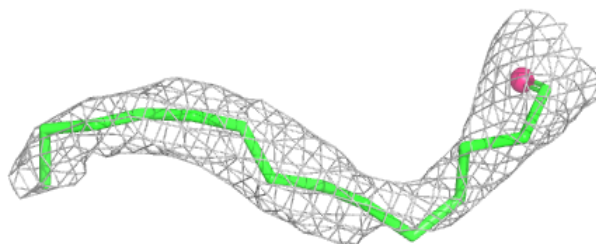
Electron density around MYR C 101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around MYR H 101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.