



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 29, 2021 – 02:03 PM EST

PDB ID : 7NAB
Title : Crystal structure of human neutralizing mAb CV3-25 binding to SARS-CoV-2 S MPER peptide 1140-1165
Authors : Chen, Y.; Tolbert, W.D.; Pazgier, M.
Deposited on : 2021-06-21
Resolution : 2.15 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 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)
Xtrriage (Phenix) : 1.13
EDS : 2.23.2
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) : 2.23.2

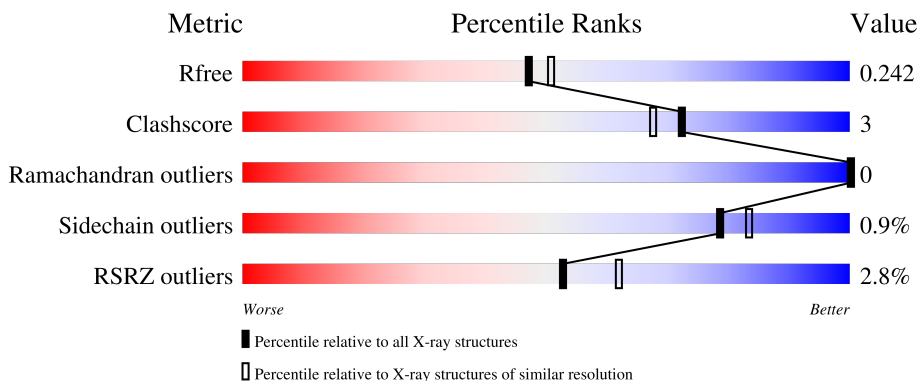
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.15 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.



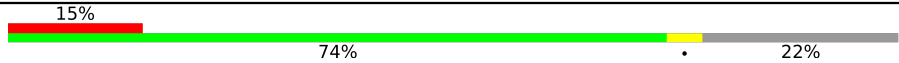
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1479 (2.16-2.16)
Clashscore	141614	1585 (2.16-2.16)
Ramachandran outliers	138981	1560 (2.16-2.16)
Sidechain outliers	138945	1559 (2.16-2.16)
RSRZ outliers	127900	1456 (2.16-2.16)

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	227	4% 91% 7%
1	H	227	3% 93% 7%
2	B	213	94% 6%
2	L	213	2% 91% 9%
3	C	27	7% 78% 22%

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Mol	Chain	Length	Quality of chain
3	D	27	 <p>A horizontal bar chart representing the quality of chain. The bar is divided into three segments: a red segment on the left labeled '15%', a green segment in the middle labeled '74%', and a grey segment on the right labeled '22%'. A small black dot is located at the end of the green segment.</p>

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 7556 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 CV3-25 Fab Heavy Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	H	226	Total 1719	C 1092	N 285	O 333	S 9	0	1	0
1	A	226	Total 1713	C 1089	N 284	O 331	S 9	0	0	0

- Molecule 2 is a protein called CV3-25 Fab Light Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	L	213	Total 1627	C 1020	N 272	O 331	S 4	0	0	0
2	B	213	Total 1627	C 1020	N 272	O 331	S 4	0	0	0

- Molecule 3 is a protein called Spike protein S2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
3	D	21	Total 171	C 107	N 27	O 37	0	0	1
3	C	21	Total 171	C 107	N 27	O 37	0	0	1

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	1166	NH2	-	amidation	UNP P0DTC2
C	1166	NH2	-	amidation	UNP P0DTC2

- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

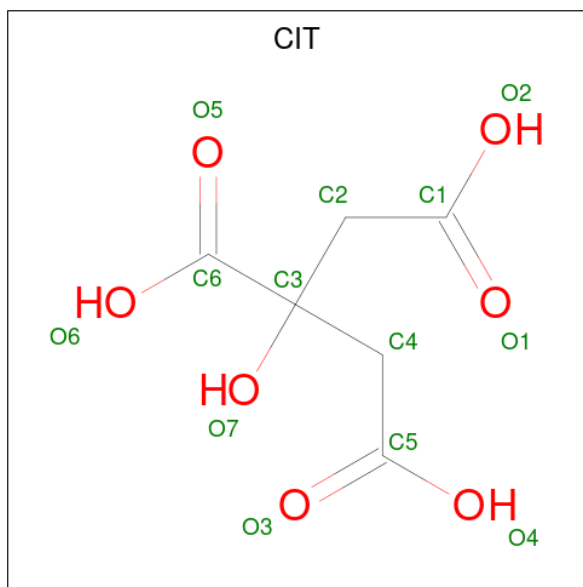
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	H	3	Total 3	Na 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	7	Total	Na	0	0
			7	7		
4	A	2	Total	Na	0	0
			2	2		
4	B	4	Total	Na	0	0
			4	4		

- Molecule 5 is CITRIC ACID (three-letter code: CIT) (formula: $C_6H_8O_7$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	C	O	0	0
			13	6	7		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	H	130	Total	O	0	0
			130	130		
6	L	130	Total	O	0	0
			130	130		
6	A	114	Total	O	0	0
			114	114		
6	B	112	Total	O	0	0
			112	112		
6	D	8	Total	O	0	0
			8	8		

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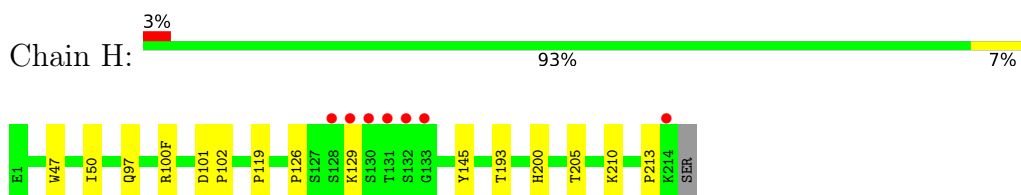
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	C	5	Total	O	0	0
			5	5		

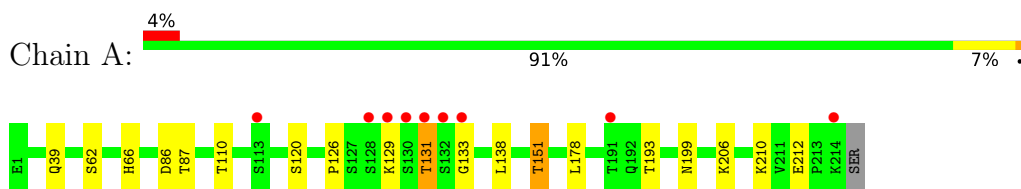
3 Residue-property plots [i](#)

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.

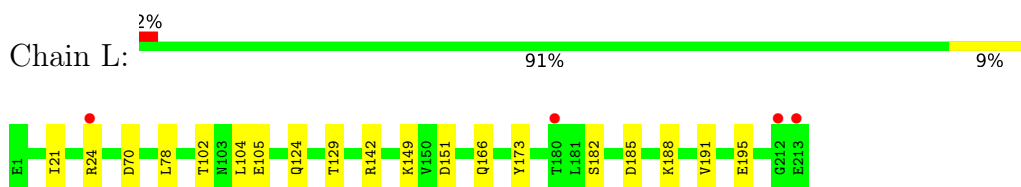
- Molecule 1: CV3-25 Fab Heavy Chain



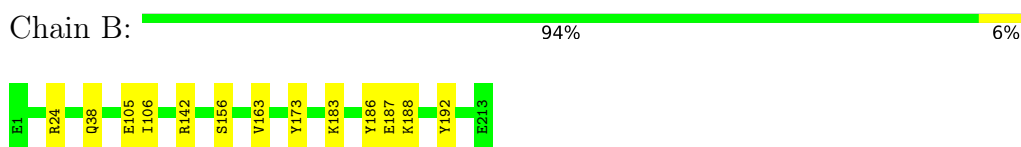
- Molecule 1: CV3-25 Fab Heavy Chain



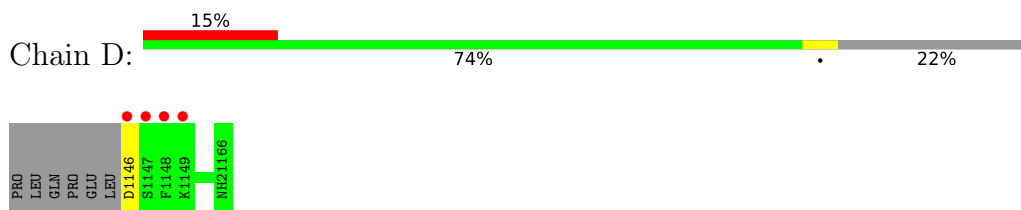
- Molecule 2: CV3-25 Fab Light Chain



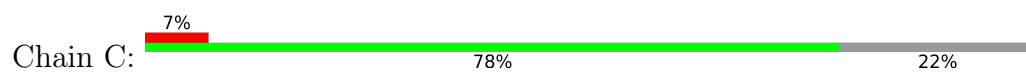
- Molecule 2: CV3-25 Fab Light Chain



- Molecule 3: Spike protein S2



- Molecule 3: Spike protein S2



PRO	
LEU	
GLN	
PRO	
GLU	
LEU	
D1146	
S1147	
F1148	
MM21166	

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	82.76Å 85.24Å 87.07Å 90.00° 114.77° 90.00°	Depositor
Resolution (Å)	38.56 – 2.15 38.56 – 2.15	Depositor EDS
% Data completeness (in resolution range)	95.9 (38.56-2.15) 92.8 (38.56-2.15)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.72 (at 2.14Å)	Xtrriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.185 , 0.238 0.197 , 0.242	Depositor DCC
R_{free} test set	2008 reflections (3.47%)	wwPDB-VP
Wilson B-factor (Å ²)	37.4	Xtrriage
Anisotropy	0.120	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 33.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7556	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 80.17 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 4.7443e-07. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: NA, NH2, CIT

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	0.56	0/1761	0.69	0/2400
1	H	0.43	0/1767	0.62	0/2408
2	B	0.43	0/1663	0.61	0/2260
2	L	0.45	0/1663	0.60	0/2260
3	C	0.34	0/174	0.44	0/233
3	D	0.42	0/174	0.49	0/233
All	All	0.47	0/7202	0.63	0/9794

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

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	1713	0	1676	13	0
1	H	1719	0	1680	8	0
2	B	1627	0	1578	7	0
2	L	1627	0	1574	18	0
3	C	171	0	150	0	0
3	D	171	0	150	1	0
4	A	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	4	0	0	0	0
4	H	3	0	0	0	0
4	L	7	0	0	0	0
5	B	13	0	5	1	0
6	A	114	0	0	2	0
6	B	112	0	0	1	0
6	C	5	0	0	0	0
6	D	8	0	0	0	0
6	H	130	0	0	0	0
6	L	130	0	0	0	0
All	All	7556	0	6813	47	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 3.

All (47) 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:L:21:ILE:HD11	2:L:102:THR:OG1	1.52	1.09
2:L:21:ILE:HD11	2:L:102:THR:CB	1.82	1.09
2:L:21:ILE:CD1	2:L:102:THR:CB	2.34	1.04
2:L:21:ILE:CD1	2:L:102:THR:HB	1.89	1.00
2:L:21:ILE:HD12	2:L:102:THR:HG21	1.41	0.99
2:L:21:ILE:HD12	2:L:102:THR:CG2	2.01	0.90
2:L:185:ASP:HA	2:L:188:LYS:HD2	1.68	0.75
2:L:149:LYS:NZ	2:L:195:GLU:OE1	2.22	0.73
2:L:21:ILE:HD12	2:L:102:THR:CB	2.19	0.72
1:A:131:THR:C	1:A:133:GLY:H	1.94	0.70
1:A:199:ASN:HD21	1:A:206:LYS:HE2	1.57	0.69
2:B:183:LYS:NZ	2:B:187:GLU:OE2	2.23	0.67
2:L:21:ILE:CD1	2:L:102:THR:CG2	2.69	0.66
2:L:21:ILE:CD1	2:L:102:THR:HG21	2.22	0.65
2:B:188:LYS:HE3	6:B:432:HOH:O	2.01	0.61
3:D:1146:ASP:OD1	3:D:1146:ASP:N	2.37	0.58
1:A:66:HIS:HE1	1:A:86:ASP:OD2	1.88	0.57
2:L:166:GLN:HG3	2:L:173:TYR:CZ	2.42	0.55
1:A:39:GLN:HE22	2:B:38:GLN:HE22	1.54	0.53
1:A:126:PRO:HD3	1:A:138:LEU:HB3	1.91	0.53
2:L:142:ARG:HH11	2:L:142:ARG:HG2	1.74	0.52
1:A:178:LEU:HA	6:A:431:HOH:O	2.10	0.51
1:A:193:THR:HG23	1:A:210:LYS:HE3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:THR:HG23	1:A:110:THR:HA	1.92	0.50
2:B:105:GLU:HG2	2:B:106:ILE:N	2.27	0.50
1:A:131:THR:C	1:A:133:GLY:N	2.59	0.50
1:H:193:THR:HG23	1:H:210:LYS:HE3	1.94	0.49
1:A:151:THR:HG22	1:A:199:ASN:HB3	1.95	0.48
2:L:182:SER:OG	2:L:185:ASP:OD1	2.32	0.47
2:L:78:LEU:HD11	2:L:104:LEU:HD21	1.97	0.47
5:B:305:CIT:O2	5:B:305:CIT:O7	2.30	0.47
1:A:120:SER:OG	6:A:401:HOH:O	2.21	0.46
2:B:142:ARG:CZ	2:B:163:VAL:HG21	2.47	0.45
2:L:151:ASP:OD1	2:L:191:VAL:HG12	2.17	0.45
2:L:24:ARG:HG2	2:L:70:ASP:OD1	2.17	0.45
1:A:199:ASN:ND2	1:A:206:LYS:HE2	2.29	0.44
2:B:186:TYR:HA	2:B:192:TYR:OH	2.18	0.43
1:H:129:LYS:HB3	1:H:129:LYS:HE2	1.72	0.43
1:H:97:GLN:HB3	1:H:100(F):ARG:HG2	2.01	0.42
2:B:105:GLU:HG3	2:B:173:TYR:OH	2.19	0.42
1:A:210:LYS:HE2	1:A:212:GLU:OE2	2.20	0.42
1:H:101:ASP:HA	1:H:102:PRO:HA	1.87	0.42
1:H:119:PRO:HB3	1:H:145:TYR:HB3	2.01	0.42
1:H:47:TRP:HE1	1:H:50:ILE:HG23	1.84	0.41
2:L:124:GLN:HG2	2:L:129:THR:O	2.21	0.41
1:H:200:HIS:HB3	1:H:205:THR:OG1	2.21	0.41
1:H:126:PRO:HG2	1:H:213:PRO:HB3	2.02	0.41

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	224/227 (99%)	218 (97%)	6 (3%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	225/227 (99%)	217 (96%)	8 (4%)	0	100	100
2	B	211/213 (99%)	206 (98%)	5 (2%)	0	100	100
2	L	211/213 (99%)	206 (98%)	5 (2%)	0	100	100
3	C	19/27 (70%)	19 (100%)	0	0	100	100
3	D	19/27 (70%)	18 (95%)	1 (5%)	0	100	100
All	All	909/934 (97%)	884 (97%)	25 (3%)	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	193/194 (100%)	189 (98%)	4 (2%)	53	57
1	H	194/194 (100%)	194 (100%)	0	100	100
2	B	185/185 (100%)	183 (99%)	2 (1%)	73	78
2	L	185/185 (100%)	184 (100%)	1 (0%)	88	92
3	C	20/26 (77%)	20 (100%)	0	100	100
3	D	20/26 (77%)	20 (100%)	0	100	100
All	All	797/810 (98%)	790 (99%)	7 (1%)	78	83

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	L	105	GLU
1	A	62	SER
1	A	129	LYS
1	A	131	THR
1	A	151	THR
2	B	24	ARG
2	B	156	SER

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

Mol	Chain	Res	Type
1	H	64	GLN
1	A	66	HIS
1	A	82(A)	ASN
1	A	199	ASN
2	B	38	GLN
2	B	147	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 17 ligands modelled in this entry, 16 are monoatomic - leaving 1 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
5	CIT	B	305	-	3,12,12	1.48	0	3,17,17	1.96	1 (33%)

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
5	CIT	B	305	-	-	3/6/16/16	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	305	CIT	C3-C2-C1	-2.84	110.43	114.98

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	305	CIT	C1-C2-C3-C6
5	B	305	CIT	C1-C2-C3-O7
5	B	305	CIT	C1-C2-C3-C4

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	305	CIT	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

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	226/227 (99%)	0.10	9 (3%) 38 47	29, 45, 72, 131	0
1	H	226/227 (99%)	0.00	7 (3%) 49 58	29, 42, 65, 141	0
2	B	213/213 (100%)	-0.10	0 100 100	30, 42, 56, 70	0
2	L	213/213 (100%)	-0.04	4 (1%) 66 74	29, 39, 57, 67	0
3	C	20/27 (74%)	0.71	2 (10%) 7 11	40, 58, 108, 118	0
3	D	20/27 (74%)	0.62	4 (20%) 1 1	35, 55, 96, 111	0
All	All	918/934 (98%)	0.02	26 (2%) 53 62	29, 42, 68, 141	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	131	THR	13.2
1	H	133	GLY	7.7
1	A	130	SER	7.5
1	A	131	THR	7.4
1	A	132	SER	7.1
3	C	1148	PHE	5.5
1	A	133	GLY	4.8
3	D	1146	ASP	4.6
1	H	128	SER	4.6
1	H	132	SER	4.5
1	A	129	LYS	4.4
1	H	129	LYS	4.4
1	H	214	LYS	3.7
1	A	128	SER	3.6
2	L	213	GLU	3.2
2	L	212	GLY	2.8
1	A	191	THR	2.6
1	H	130	SER	2.5
3	D	1147	SER	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	113	SER	2.5
2	L	24	ARG	2.3
3	D	1148	PHE	2.3
1	A	214	LYS	2.2
3	C	1147	SER	2.2
3	D	1149	LYS	2.0
2	L	180	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 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
5	CIT	B	305	13/13	0.67	0.25	71,75,81,83	0
4	NA	A	302	1/1	0.84	0.60	30,30,30,30	0
4	NA	H	303	1/1	0.85	0.59	30,30,30,30	0
4	NA	B	303	1/1	0.86	0.77	30,30,30,30	0
4	NA	B	304	1/1	0.87	0.66	30,30,30,30	0
4	NA	L	305	1/1	0.88	0.11	53,53,53,53	0
4	NA	L	307	1/1	0.88	0.30	30,30,30,30	0
4	NA	B	301	1/1	0.92	0.33	52,52,52,52	0
4	NA	A	301	1/1	0.92	0.62	30,30,30,30	0
4	NA	L	306	1/1	0.93	0.14	50,50,50,50	0
4	NA	H	302	1/1	0.93	0.09	46,46,46,46	0
4	NA	B	302	1/1	0.94	0.14	51,51,51,51	0
4	NA	L	301	1/1	0.95	0.24	44,44,44,44	0
4	NA	L	304	1/1	0.95	0.29	51,51,51,51	0
4	NA	H	301	1/1	0.95	0.33	42,42,42,42	0
4	NA	L	302	1/1	0.96	0.12	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	NA	L	303	1/1	0.97	0.54	50,50,50,50	0

6.5 Other polymers [i](#)

There are no such residues in this entry.