



Full wwPDB X-ray Structure Validation Report ⓘ

May 13, 2020 – 06:45 am BST

PDB ID : 2XNA
Title : Crystal structure of the complex between human T cell receptor and staphylococcal enterotoxin
Authors : Saline, M.; Rodstrom, K.E.J.; Fischer, G.; Orekhov, V.Y.; Karlsson, B.G.; Lindkvist-Petersson, K.
Deposited on : 2010-07-31
Resolution : 2.10 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)
Xtriage (Phenix) : 1.13
EDS : 2.11
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) : 2.11

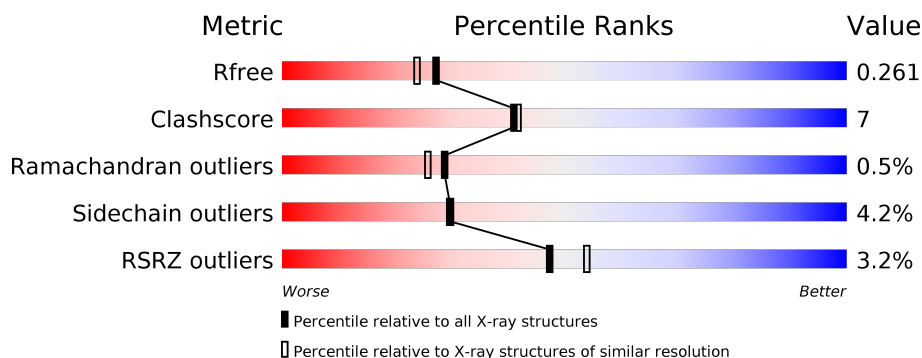
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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 on 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	204	<div> <div>2%</div> <div> <div></div> <div>81%</div> <div>15%</div> <div>..</div> </div> </div>
2	B	244	<div> <div>7%</div> <div> <div></div> <div>84%</div> <div>14%</div> <div>..</div> </div> </div>
3	C	217	<div> <div></div> <div> <div></div> <div>85%</div> <div>13%</div> <div>..</div> </div> </div>

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 5550 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 T CELL RECEPTOR ALPHA CHAIN C REGION.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	199	Total	C	N	O	S	0	4	0
			1525	956	255	307	7			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	158	CYS	THR	engineered mutation	UNP P01848

- Molecule 2 is a protein called T CELL RECEPTOR BETA-1 CHAIN C REGION.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	241	Total	C	N	O	S	0	4	0
			1960	1233	344	377	6			

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	118	LYS	ASN	conflict	UNP P01850
B	119	ASN	LYS	conflict	UNP P01850
B	151	TYR	PHE	conflict	UNP P01850
B	171	CYS	SER	engineered mutation	UNP P01850
B	189	SER	CYS	conflict	UNP P01850

- Molecule 3 is a protein called ENTEROTOXIN H.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	215	Total	C	N	O	S	0	5	0
			1797	1136	295	363	3			

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

- Molecule 5 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	C	1	Total	Na	0	0
			1	1		

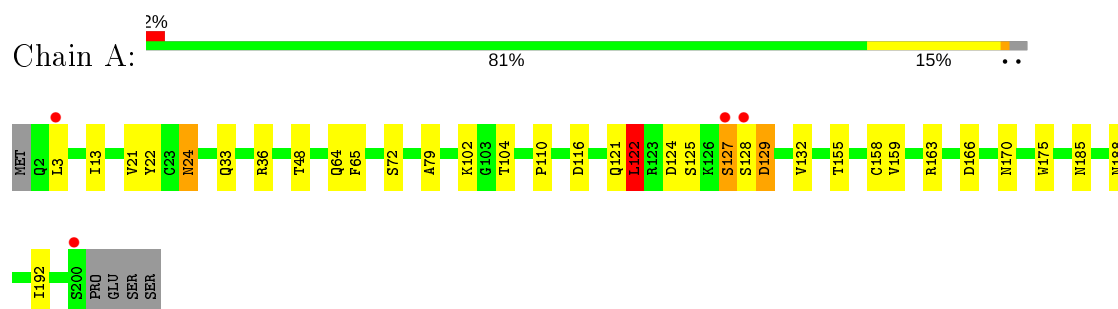
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	75	Total	O	0	0
			75	75		
6	B	62	Total	O	0	0
			62	62		
6	C	112	Total	O	0	0
			112	112		

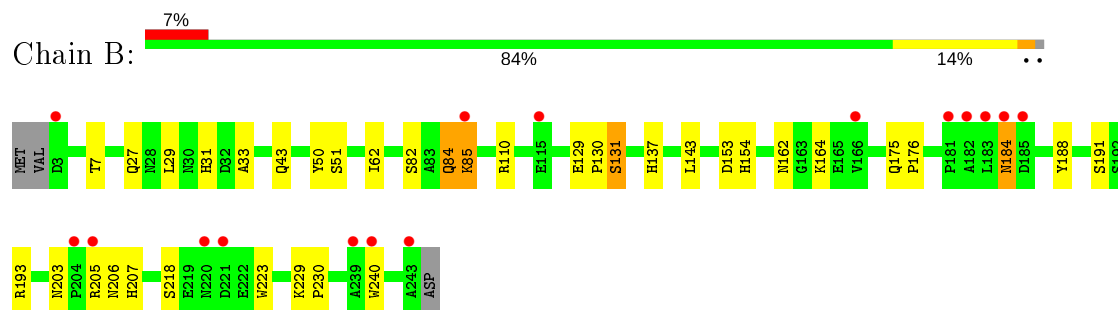
3 Residue-property plots [i](#)

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

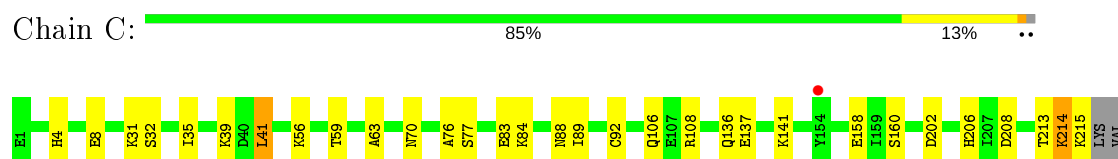
- Molecule 1: T CELL RECEPTOR ALPHA CHAIN C REGION



- Molecule 2: T CELL RECEPTOR BETA-1 CHAIN C REGION



- Molecule 3: ENTEROTOXIN H



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	182.69 Å 49.98 Å 132.83 Å 90.00° 131.61° 90.00°	Depositor
Resolution (Å)	99.33 – 2.10 43.06 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.2 (99.33-2.10) 99.2 (43.06-2.10)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.07 (at 2.10 Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.223 , 0.261 0.220 , 0.261	Depositor DCC
R_{free} test set	2670 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	34.4	Xtriage
Anisotropy	0.212	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 43.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.014 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5550	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.96% 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, NA

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	0.58	0/1555	0.69	1/2113 (0.0%)
2	B	0.52	0/2013	0.60	0/2739
3	C	0.63	0/1825	0.66	0/2451
All	All	0.57	0/5393	0.65	1/7303 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	122	LEU	CA-CB-CG	6.55	130.36	115.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1525	0	1435	24	0
2	B	1960	0	1842	34	0
3	C	1797	0	1760	19	0
4	B	18	0	24	0	0
5	C	1	0	0	0	0
6	A	75	0	0	2	0
6	B	62	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	C	112	0	0	1	0
All	All	5550	0	5061	73	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 7.

All (73) 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:B:110[B]:ARG:HH11	2:B:110[B]:ARG:CG	1.72	1.01
2:B:110[B]:ARG:HH11	2:B:110[B]:ARG:HG3	1.26	1.00
2:B:153[A]:ASP:OD1	2:B:176:PRO:HG2	1.67	0.94
1:A:33:GLN:NE2	1:A:48:THR:HG23	1.92	0.85
1:A:159:VAL:HG22	1:A:170:ASN:ND2	1.90	0.85
2:B:223:TRP:HB2	2:B:229:LYS:HE3	1.61	0.80
1:A:124:ASP:HB3	1:A:128:SER:CB	2.12	0.80
2:B:84:GLN:O	2:B:85:LYS:HB2	1.85	0.77
2:B:110[B]:ARG:HG3	2:B:110[B]:ARG:NH1	2.04	0.71
2:B:27:GLN:NE2	2:B:31:HIS:H	1.90	0.69
2:B:27:GLN:HE22	2:B:31:HIS:H	1.39	0.67
1:A:122:LEU:HB3	2:B:129:GLU:O	1.97	0.65
2:B:110[B]:ARG:HH11	2:B:110[B]:ARG:HG2	1.62	0.63
3:C:31:LYS:HE3	3:C:70:ASN:OD1	1.99	0.63
1:A:33:GLN:HE21	1:A:48:THR:HG23	1.65	0.62
3:C:76:ALA:H	3:C:136:GLN:NE2	1.98	0.62
1:A:159:VAL:HG22	1:A:170:ASN:HD22	1.62	0.61
2:B:110[B]:ARG:CG	2:B:110[B]:ARG:NH1	2.43	0.61
1:A:36[A]:ARG:NH1	6:A:2010:HOH:O	2.35	0.59
2:B:229:LYS:HD3	2:B:230:PRO:HD2	1.84	0.59
2:B:162:ASN:ND2	2:B:207:HIS:H	2.02	0.57
1:A:33:GLN:NE2	1:A:48:THR:CG2	2.67	0.57
2:B:130:PRO:HD3	2:B:143:LEU:HG	1.88	0.55
2:B:84:GLN:O	2:B:85:LYS:CB	2.55	0.55
1:A:110:PRO:HG3	1:A:159:VAL:HG21	1.88	0.54
1:A:33:GLN:HE21	1:A:48:THR:CG2	2.21	0.53
3:C:137:GLU:OE2	3:C:141:LYS:NZ	2.37	0.52
2:B:162:ASN:HD21	2:B:207:HIS:H	1.58	0.51
3:C:84:LYS:HE3	3:C:88:ASN:O	2.11	0.51
1:A:116:ASP:OD1	2:B:137:HIS:HE1	1.93	0.51
2:B:175:GLN:HA	2:B:175:GLN:NE2	2.27	0.49
2:B:223:TRP:CB	2:B:229:LYS:HG2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:4:HIS:HD2	3:C:8:GLU:OE2	1.96	0.49
1:A:132:VAL:HG12	1:A:175:TRP:HB3	1.95	0.48
2:B:162:ASN:HD21	2:B:206:ASN:HA	1.78	0.48
1:A:163:ARG:NE	1:A:163:ARG:HA	2.28	0.48
3:C:108:ARG:CZ	3:C:202:ASP:HB3	2.44	0.48
3:C:77:SER:HA	3:C:92:CYS:O	2.14	0.48
1:A:127:SER:CB	1:A:128:SER:HA	2.45	0.47
3:C:160:SER:CB	3:C:214:LYS:HB2	2.45	0.46
2:B:110[B]:ARG:HG2	2:B:110[B]:ARG:NH1	2.24	0.46
1:A:155:THR:HG21	2:B:191:SER:OG	2.15	0.46
3:C:32:SER:HB3	3:C:41:LEU:HG	1.99	0.45
1:A:21:VAL:HB	6:A:2043:HOH:O	2.16	0.45
2:B:27:GLN:HE21	2:B:29:LEU:H	1.62	0.45
3:C:206:HIS:HE1	3:C:208:ASP:OD2	1.99	0.45
2:B:207:HIS:HB2	2:B:240:TRP:CZ3	2.52	0.45
1:A:159:VAL:HG22	1:A:170:ASN:HD21	1.73	0.45
2:B:223:TRP:HB2	2:B:229:LYS:CE	2.40	0.45
1:A:121:GLN:O	2:B:131:SER:HB2	2.17	0.44
3:C:39[B]:LYS:HE3	3:C:39[B]:LYS:HB2	1.75	0.44
2:B:153[A]:ASP:O	2:B:154:HIS:HD2	2.01	0.44
2:B:33:ALA:HA	2:B:51:SER:O	2.19	0.43
3:C:158[A]:GLU:O	3:C:213:THR:HA	2.18	0.43
3:C:56:LYS:NZ	3:C:83[A]:GLU:OE1	2.48	0.43
1:A:22:TYR:CZ	1:A:24:ASN:HB3	2.52	0.43
2:B:27:GLN:HE21	2:B:29:LEU:N	2.16	0.43
3:C:35:ILE:HD13	3:C:41:LEU:HD13	2.00	0.42
2:B:153[A]:ASP:CG	2:B:153[A]:ASP:O	2.56	0.42
3:C:39[A]:LYS:HB2	3:C:39[A]:LYS:NZ	2.34	0.42
3:C:89:ILE:H	3:C:89:ILE:HG12	1.72	0.42
1:A:13:ILE:HD11	1:A:79:ALA:CB	2.49	0.42
2:B:85:LYS:HE3	2:B:85:LYS:HB2	1.87	0.42
3:C:39[A]:LYS:NZ	3:C:39[A]:LYS:CB	2.83	0.41
2:B:203:ASN:OD1	2:B:205:ARG:HB3	2.19	0.41
1:A:128:SER:CA	1:A:129:ASP:CB	2.98	0.41
3:C:39[A]:LYS:O	3:C:63:ALA:HB2	2.20	0.41
1:A:21:VAL:HG11	1:A:104:THR:HG21	2.03	0.41
1:A:185:ASN:HB2	1:A:188:ASN:ND2	2.36	0.41
1:A:64:GLN:O	1:A:72:SER:HA	2.21	0.41
2:B:184:ASN:N	2:B:184:ASN:OD1	2.47	0.41
3:C:59:THR:HB	6:C:2032:HOH:O	2.21	0.40
2:B:153[B]:ASP:HB3	2:B:188:TYR:CD2	2.57	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	201/204 (98%)	193 (96%)	6 (3%)	2 (1%)	15	11
2	B	243/244 (100%)	231 (95%)	11 (4%)	1 (0%)	34	32
3	C	218/217 (100%)	213 (98%)	5 (2%)	0	100	100
All	All	662/665 (100%)	637 (96%)	22 (3%)	3 (0%)	29	26

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	127	SER
1	A	129	ASP
2	B	85	LYS

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	168/180 (93%)	159 (95%)	9 (5%)	22	20
2	B	212/215 (99%)	200 (94%)	12 (6%)	20	18
3	C	198/197 (100%)	193 (98%)	5 (2%)	47	52
All	All	578/592 (98%)	552 (96%)	26 (4%)	30	27

All (26) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	LEU
1	A	24	ASN
1	A	65	PHE
1	A	102	LYS
1	A	122	LEU
1	A	125	SER
1	A	158	CYS
1	A	166	ASP
1	A	192	ILE
2	B	7[A]	THR
2	B	7[B]	THR
2	B	43	GLN
2	B	50	TYR
2	B	62	ILE
2	B	82	SER
2	B	84	GLN
2	B	131	SER
2	B	164	LYS
2	B	184	ASN
2	B	193	ARG
2	B	218	SER
3	C	41	LEU
3	C	106[A]	GLN
3	C	106[B]	GLN
3	C	214	LYS
3	C	215	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	GLN
1	A	146	GLN
1	A	170	ASN
2	B	27	GLN
2	B	52	GLN
2	B	84	GLN
2	B	137	HIS
2	B	162	ASN
2	B	175	GLN
2	B	206	ASN
2	B	225	GLN
3	C	4	HIS
3	C	100	ASN

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Mol	Chain	Res	Type
3	C	113	ASN
3	C	136	GLN
3	C	206	HIS

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 1 is monoatomic - leaving 3 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	$\# Z > 2$
4	GOL	B	1244	-	5,5,5	0.41	0	5,5,5	0.32	0
4	GOL	B	1245	-	5,5,5	0.37	0	5,5,5	0.36	0
4	GOL	B	1246	-	5,5,5	0.35	0	5,5,5	0.32	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
4	GOL	B	1244	-	-	0/4/4/4	-
4	GOL	B	1245	-	-	4/4/4/4	-
4	GOL	B	1246	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	1245	GOL	O1-C1-C2-C3
4	B	1245	GOL	C1-C2-C3-O3
4	B	1245	GOL	O2-C2-C3-O3
4	B	1245	GOL	O1-C1-C2-O2
4	B	1246	GOL	O1-C1-C2-C3
4	B	1246	GOL	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

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	199/204 (97%)	0.16	4 (2%) 65 69	24, 34, 57, 65	0
2	B	241/244 (98%)	0.42	16 (6%) 18 23	26, 42, 62, 70	0
3	C	215/217 (99%)	-0.11	1 (0%) 91 92	16, 31, 51, 59	0
All	All	655/665 (98%)	0.16	21 (3%) 47 54	16, 36, 57, 70	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	182	ALA	7.1
1	A	127	SER	6.4
2	B	240	TRP	4.6
2	B	3	ASP	4.4
2	B	183	LEU	4.2
2	B	115	GLU	3.6
1	A	128	SER	3.4
2	B	243	ALA	3.3
2	B	205	ARG	3.0
2	B	85	LYS	2.9
2	B	184	ASN	2.8
2	B	221	ASP	2.7
2	B	204	PRO	2.7
2	B	166	VAL	2.6
3	C	154[A]	TYR	2.6
1	A	3	LEU	2.5
2	B	181	PRO	2.5
2	B	220	ASN	2.5
2	B	185	ASP	2.3
2	B	239	ALA	2.2
1	A	200	SER	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 carbohydrates 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(\AA^2)	Q<0.9
4	GOL	B	1246	6/6	0.43	0.23	76,76,77,77	0
4	GOL	B	1245	6/6	0.56	0.20	55,59,60,61	0
4	GOL	B	1244	6/6	0.82	0.18	72,73,73,74	0
5	NA	C	1216	1/1	0.99	0.09	27,27,27,27	0

6.5 Other polymers [i](#)

There are no such residues in this entry.