Full wwPDB X-ray Structure Validation Report (i)

Jul 27, 2021 – 03:02 pm BST

PDB ID	:	4AQU
Title	:	Crystal structure of I-CreI complexed with its target methylated at position plus 2 (in the b strand) in the presence of calcium
Authors	:	Valton, J.; Daboussi, F.; Leduc, S.; Redondo, P.; Macmaster, R.; Molina, R.; Montoya, G.; Duchateau, P.
Deposited on	:	2012-04-19
Resolution	:	2.30 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

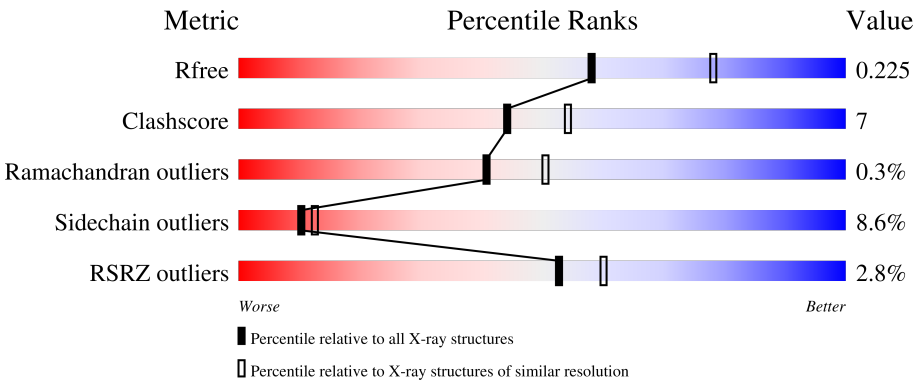
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.22
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.22

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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 <=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	152	2%, 80%, 18%, •
1	B	152	5%, 81%, 15%, •
2	C	24	50%, 42%, 8%
3	D	24	54%, 33%, 12%

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 3567 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 DNA ENDONUCLEASE I-CREI.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	152	1236	796	210	229	1	0	0	0
1	B	152	1236	796	210	229	1	0	0	0

- Molecule 2 is a DNA chain called 5'-D(*DTP*CP*AP*AP*AP*AP*CP*GP*TP*CP*GP*TP*GP*DAP *GP*AP*CP*AP*GP*TP*TP*TP*GP*G)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	C	24	494	236	94	141	23	1	0	0

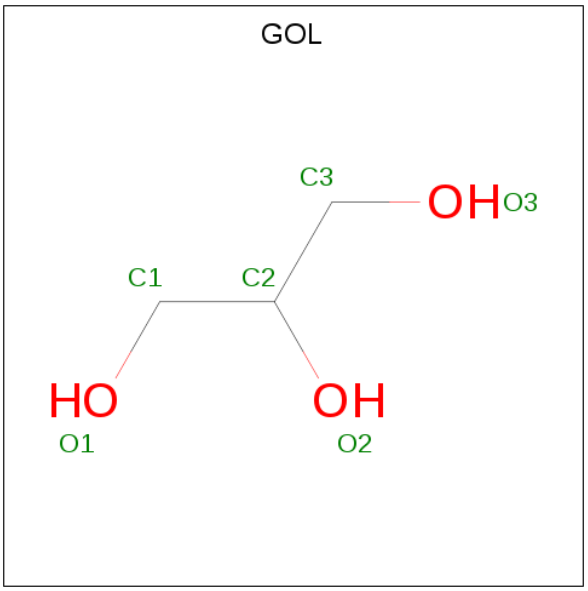
- Molecule 3 is a DNA chain called 5'-D(*DCP*CP*AP*AP*AP*CP*TP*GP*TP*CP*TP*CP*AP*5CMP *GP*AP*CP*GP*TP*TP*TP*TP*GP*A)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	D	24	485	234	85	143	23	0	0	0

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Ca		
4	A	2	2	2	0	0

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 6 is water.

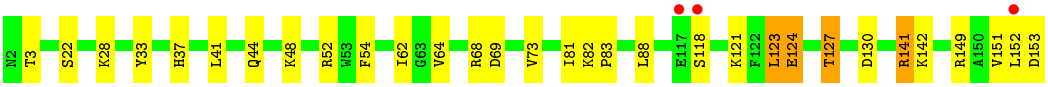
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
6	A	52	52	52	0	0
			Total	O		
6	B	23	23	23	0	0
			Total	O		
6	C	18	18	18	0	0
			Total	O		
6	D	9	9	9	0	0

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.

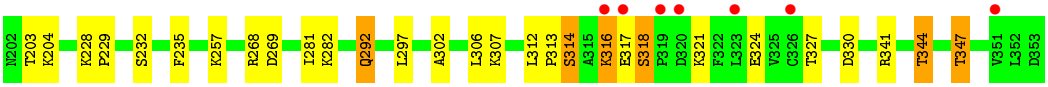
• Molecule 1: DNA ENDONUCLEASE I-CREI

Chain A:



• Molecule 1: DNA ENDONUCLEASE I-CREI

Chain B:

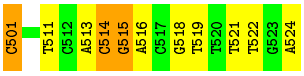


• Molecule 2: 5'-D(*DTP*CP*AP*AP*AP*AP*CP*GP*TP*CP*GP*TP*GP*DAP *GP*AP*CP*AP*GP*TP*TP*TP*GP*G)-3'

Chain C:

• Molecule 3: 5'-D(*DCP*CP*AP*AP*AP*CP*TP*GP*TP*CP*TP*CP*AP*5CMP *GP*AP*CP*GP*TP*TP*TP*TP*GP*A)-3'

Chain D:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 2 21	Depositor
Cell constants a, b, c, α, β, γ	71.58Å 45.35Å 172.33Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.80 – 2.30 44.80 – 2.30	Depositor EDS
% Data completeness (in resolution range)	99.7 (44.80-2.30) 99.7 (44.80-2.30)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.63 (at 2.29Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.196 , 0.249 0.175 , 0.225	Depositor DCC
R_{free} test set	1995 reflections (7.76%)	wwPDB-VP
Wilson B-factor (Å^2)	43.0	Xtriage
Anisotropy	0.151	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 34.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	3567	wwPDB-VP
Average B, all atoms (Å^2)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.78% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: 5CM, CA, GOL

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	0.41	0/1259	0.50	0/1700
1	B	0.39	0/1259	0.48	0/1700
2	C	0.86	1/555 (0.2%)	1.52	7/856 (0.8%)
3	D	0.83	0/519	1.48	7/796 (0.9%)
All	All	0.57	1/3592 (0.0%)	0.95	14/5052 (0.3%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	412	DT	C5-C7	6.68	1.54	1.50

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	412	DT	C6-C5-C7	-9.08	117.45	122.90
2	C	413	DG	O4'-C1'-N9	-7.88	102.48	108.00
2	C	412	DT	C4-C5-C7	7.51	123.50	119.00
3	D	521	DT	O4'-C1'-N1	-7.29	102.89	108.00
2	C	403	DA	O4'-C1'-N9	-7.08	103.05	108.00
3	D	516	DA	O4'-C1'-N9	6.92	112.84	108.00
2	C	423	DG	O4'-C1'-N9	6.35	112.44	108.00
3	D	522	DT	O4'-C1'-N1	-6.29	103.59	108.00
3	D	515	DG	O4'-C1'-N9	-6.19	103.67	108.00
3	D	511	DT	C6-C5-C7	-5.78	119.43	122.90
3	D	501	DC	O4'-C1'-N1	5.75	112.02	108.00
2	C	422	DT	O4'-C1'-N1	-5.74	103.98	108.00
2	C	416	DA	O4'-C1'-N9	5.72	112.00	108.00
3	D	524	DA	O4'-C1'-N9	5.02	111.51	108.00

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	1236	0	1270	20	0
1	B	1236	0	1270	15	0
2	C	494	0	272	8	0
3	D	485	0	275	6	0
4	A	2	0	0	0	0
5	A	6	0	8	0	0
5	B	6	0	8	0	0
6	A	52	0	0	3	0
6	B	23	0	0	0	0
6	C	18	0	0	0	0
6	D	9	0	0	0	0
All	All	3567	0	3103	43	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 (43) 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)
1:B:324:GLU:O	1:B:327:THR:HG22	1.84	0.78
1:A:123:LEU:HD21	1:A:149:ARG:HG2	1.72	0.71
1:A:73:VAL:HG21	3:D:514:5CM:H5A1	1.75	0.68
1:B:281:ILE:HG23	1:B:282:LYS:HG3	1.74	0.68
3:D:518:DG:H2"	3:D:519:DT:H5'	1.79	0.64
1:A:62:ILE:HG22	1:A:64:VAL:HG12	1.83	0.60
1:A:52:ARG:NH1	1:A:69:ASP:OD1	2.35	0.60
6:A:2003:HOH:O	3:D:515:DG:OP2	2.17	0.58
1:B:228:LYS:NZ	2:C:419:DG:O6	2.34	0.56
2:C:401:DT:H2"	2:C:402:DC:H5"	1.88	0.56
2:C:418:DA:H2"	2:C:419:DG:H5'	1.88	0.55
1:A:151:VAL:C	1:A:153:ASP:H	2.10	0.54
1:B:330:ASP:OD1	1:B:341:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:124:GLU:O	1:A:127:THR:HB	2.12	0.49
1:B:235:PHE:HE2	1:B:316:LYS:HA	1.78	0.48
1:B:344:THR:H	1:B:347:THR:HG23	1.78	0.48
1:B:312:LEU:N	1:B:313:PRO:CD	2.78	0.46
1:B:318:SER:OG	1:B:321:LYS:N	2.38	0.46
1:A:142:LYS:HG3	3:D:518:DG:H5"	1.99	0.45
1:B:292:GLN:HE21	1:B:292:GLN:HB3	1.63	0.45
2:C:418:DA:H2"	2:C:419:DG:C5'	2.46	0.45
1:A:123:LEU:HD21	1:A:149:ARG:CG	2.43	0.44
1:A:130:ASP:OD1	1:A:141:ARG:NH2	2.48	0.44
1:A:130:ASP:HA	1:A:141:ARG:NH2	2.32	0.43
6:A:2052:HOH:O	2:C:415:DG:H5'	2.18	0.43
1:B:232:SER:O	3:D:501:DC:H2'	2.19	0.43
1:B:321:LYS:HE3	1:B:324:GLU:OE1	2.19	0.43
2:C:413:DG:H1'	2:C:414:DA:O4'	2.19	0.42
1:A:82:LYS:HB2	1:A:83:PRO:HD3	2.00	0.42
2:C:402:DC:H2"	2:C:403:DA:H5'	2.01	0.42
1:A:123:LEU:HD12	1:A:123:LEU:HA	1.72	0.42
1:B:302:ALA:O	1:B:306:LEU:HB2	2.19	0.42
1:B:314:SER:O	1:B:314:SER:OG	2.36	0.42
1:A:22:SER:HB3	1:A:44:GLN:HG2	2.02	0.42
1:A:141:ARG:NH1	6:A:2008:HOH:O	2.34	0.42
1:A:33:TYR:OH	2:C:403:DA:N7	2.51	0.41
1:B:228:LYS:HA	1:B:229:PRO:HD2	1.83	0.41
1:A:54:PHE:CD2	1:B:297:LEU:HD21	2.56	0.41
1:A:28:LYS:O	1:A:37:HIS:HA	2.21	0.40
1:A:88:LEU:HD23	1:A:88:LEU:HA	1.95	0.40
1:A:127:THR:O	1:A:130:ASP:HB2	2.22	0.40
1:A:151:VAL:C	1:A:153:ASP:N	2.74	0.40
3:D:513:DA:H1'	3:D:514:5CM:O4'	2.22	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	150/152 (99%)	143 (95%)	6 (4%)	1 (1%)	22	26
1	B	150/152 (99%)	137 (91%)	13 (9%)	0	100	100
All	All	300/304 (99%)	280 (93%)	19 (6%)	1 (0%)	41	50

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	152	LEU

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	139/139 (100%)	128 (92%)	11 (8%)	12	15
1	B	139/139 (100%)	126 (91%)	13 (9%)	8	10
All	All	278/278 (100%)	254 (91%)	24 (9%)	10	12

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	THR
1	A	41	LEU
1	A	48	LYS
1	A	68	ARG
1	A	81	ILE
1	A	118	SER
1	A	121	LYS
1	A	123	LEU
1	A	124	GLU
1	A	127	THR
1	A	141	ARG
1	B	203	THR

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Mol	Chain	Res	Type
1	B	204	LYS
1	B	257	LYS
1	B	268	ARG
1	B	269	ASP
1	B	292	GLN
1	B	307	LYS
1	B	314	SER
1	B	316	LYS
1	B	317	GLU
1	B	318	SER
1	B	344	THR
1	B	347	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

1 non-standard protein/DNA/RNA residue is modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
3	5CM	D	514	2,3,4	15,21,22	2.54	6 (40%)	19,30,33	2.29	6 (31%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	5CM	D	514	2,3,4	-	1/4/21/22	0/2/2/2

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	514	5CM	C4-N3	4.97	1.42	1.35
3	D	514	5CM	C5-C4	4.14	1.47	1.41
3	D	514	5CM	C4-N4	4.05	1.44	1.34
3	D	514	5CM	C2-N3	3.94	1.46	1.38
3	D	514	5CM	C6-C5	3.10	1.48	1.40
3	D	514	5CM	C3'-C4'	-2.32	1.46	1.53

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	D	514	5CM	C6-N1-C1'	-5.01	107.98	119.24
3	D	514	5CM	C2'-C1'-N1	4.47	124.58	114.27
3	D	514	5CM	C5A-C5-C4	-4.21	117.46	121.72
3	D	514	5CM	C2-N3-C4	3.18	119.85	116.02
3	D	514	5CM	C5-C6-N1	-2.73	119.25	122.19
3	D	514	5CM	O5'-C5'-C4'	2.55	117.68	108.99

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	D	514	5CM	C4'-C5'-O5'-P

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	514	5CM	2	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
5	GOL	B	1354	-	5,5,5	0.39	0	5,5,5	0.39	0
5	GOL	A	1155	-	5,5,5	0.40	0	5,5,5	0.27	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
5	GOL	B	1354	-	-	0/4/4/4	-
5	GOL	A	1155	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

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 (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	152/152 (100%)	0.17	3 (1%)	65	71	19, 36, 65, 84	0
1	B	152/152 (100%)	0.32	7 (4%)	32	39	21, 44, 79, 99	0
2	C	24/24 (100%)	-0.21	0	100	100	27, 36, 51, 59	0
3	D	23/24 (95%)	-0.21	0	100	100	25, 37, 50, 54	0
All	All	351/352 (99%)	0.19	10 (2%)	53	60	19, 39, 75, 99	0

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	152	LEU	4.0
1	B	351	VAL	3.9
1	B	316	LYS	3.6
1	B	317	GLU	3.0
1	A	118	SER	2.9
1	A	117	GLU	2.7
1	B	319	PRO	2.7
1	B	320	ASP	2.6
1	B	323	LEU	2.5
1	B	326	CYS	2.3

6.2 Non-standard residues in protein, DNA, RNA chains (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
3	5CM	D	514	20/21	0.95	0.18	19,30,38,47	0

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	GOL	B	1354	6/6	0.85	0.19	48,53,56,56	0
5	GOL	A	1155	6/6	0.91	0.19	44,52,55,56	0
4	CA	A	1156	1/1	0.96	0.14	25,25,25,25	0
4	CA	A	1154	1/1	0.97	0.12	22,22,22,22	0

6.5 Other polymers (i)

There are no such residues in this entry.