



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:43 PM UTC

PDB ID : 7ZX4 / pdb_00007zx4
Title : Clathrin N-terminal domain in complex with a HURP phospho-peptide
Authors : Kliche, J.; Badgujar, D.; Dobritsch, D.; Ivarsson, Y.
Deposited on : 2022-05-20
Resolution : 2.08 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
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

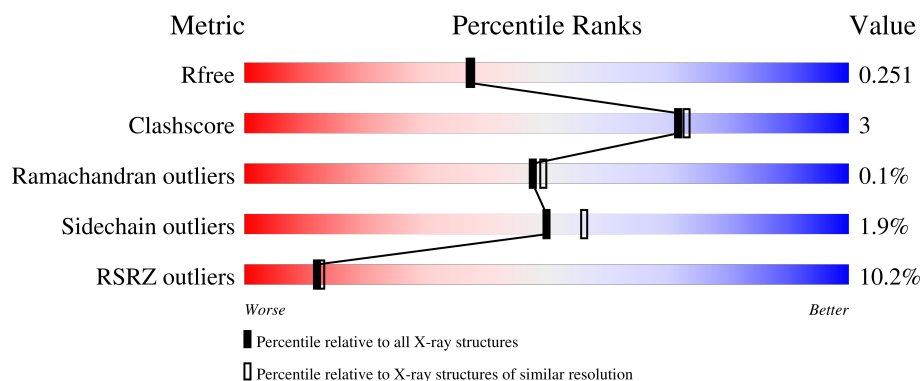
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.08 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	8172 (2.10-2.06)
Clashscore	190562	8714 (2.10-2.06)
Ramachandran outliers	187476	8641 (2.10-2.06)
Sidechain outliers	187428	8642 (2.10-2.06)
RSRZ outliers	180081	8177 (2.10-2.06)

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	364	7% 90% 8% ..
1	B	364	11% 87% 9% .
2	C	21	19% 43% 10% 48%
2	D	21	10% 48% 5% 48%
2	E	21	14% 33% 5% 62%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 6161 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 Clathrin heavy chain 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	360	Total	C	N	O	S	0	5	0
			2836	1805	483	530	18			
1	B	351	Total	C	N	O	S	0	1	0
			2752	1753	472	509	18			

- Molecule 2 is a protein called Disks large-associated protein 5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	11	Total	C	N	O	P	0	0	0
			84	52	13	18	1			
2	D	11	Total	C	N	O	P	0	0	0
			84	52	13	18	1			
2	E	8	Total	C	N	O	P	0	0	0
			63	39	9	14	1			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	1	TYR	ALA	conflict	UNP Q15398
D	1	TYR	ALA	conflict	UNP Q15398
E	1	TYR	ALA	conflict	UNP Q15398

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



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

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Cl	0	0
			1	1		

- Molecule 5 is SODIUM ION (CCD ID: NA) (formula: Na).

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

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	159	Total	O	0	0
			159	159		
6	B	150	Total	O	0	1
			151	151		
6	C	5	Total	O	0	0
			5	5		

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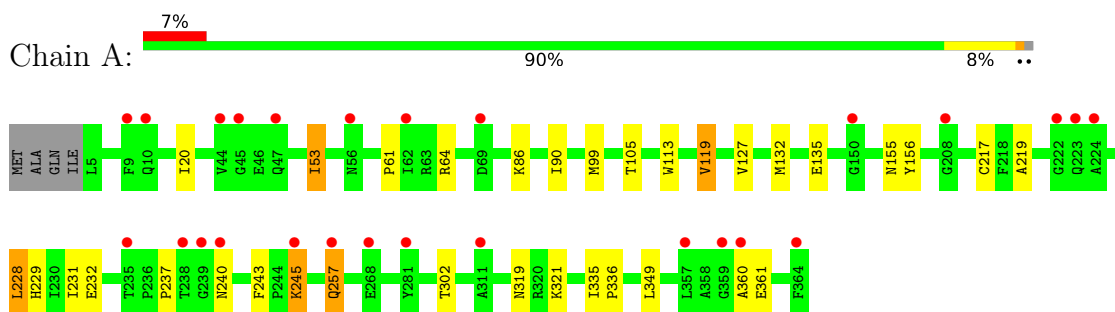
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	11	Total 11	O 11	0	0
6	E	2	Total 2	O 2	0	0

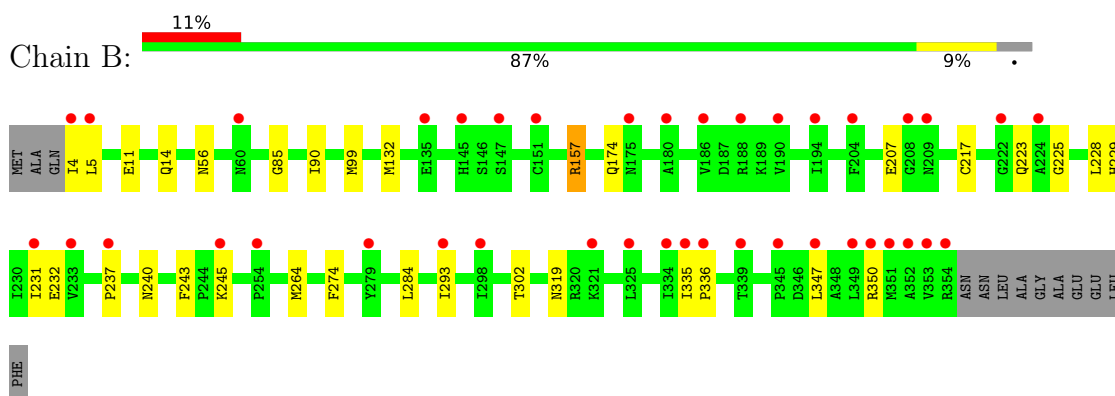
3 Residue-property plots

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.

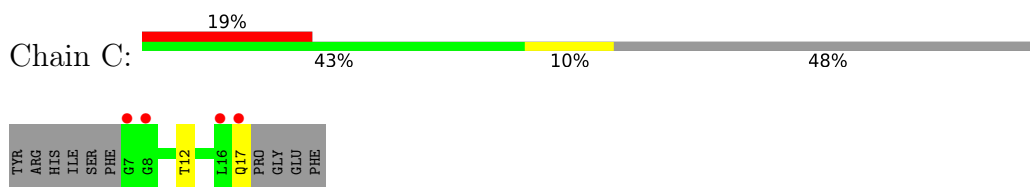
- Molecule 1: Clathrin heavy chain 1



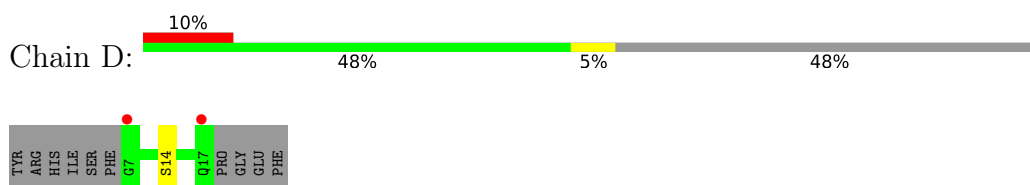
- Molecule 1: Clathrin heavy chain 1



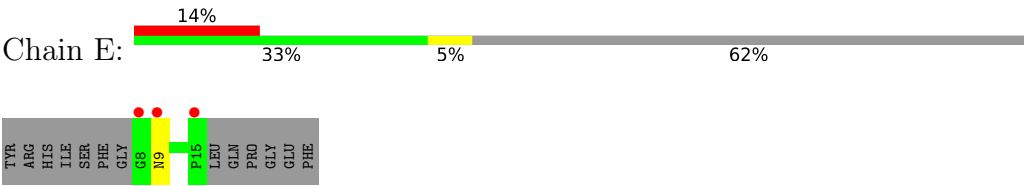
- Molecule 2: Disks large-associated protein 5



- Molecule 2: Disks large-associated protein 5



● Molecule 2: Disks large-associated protein 5



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	48.77Å 94.24Å 88.98Å 90.00° 103.81° 90.00°	Depositor
Resolution (Å)	43.20 – 2.08 43.20 – 2.08	Depositor EDS
% Data completeness (in resolution range)	96.0 (43.20-2.08) 96.0 (43.20-2.08)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.45 (at 2.08Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.206 , 0.249 0.214 , 0.251	Depositor DCC
R_{free} test set	2286 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	26.5	Xtriage
Anisotropy	0.114	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 43.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.022 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	6161	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.68% 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: CL, NA, SEP, 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	1.03	0/2910	1.23	0/3943
1	B	1.00	0/2813	1.24	1/3814 (0.0%)
2	C	0.86	0/74	1.21	0/97
2	D	0.90	0/74	1.26	0/97
2	E	1.02	0/53	1.14	0/69
All	All	1.01	0/5924	1.23	1/8020 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	225	GLY	CA-C-O	-5.94	116.59	121.76

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	2836	0	2848	21	0
1	B	2752	0	2768	18	0
2	C	84	0	79	2	0
2	D	84	0	79	0	0
2	E	63	0	57	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	12	0	16	1	0
4	A	1	0	0	0	0
5	A	1	0	0	0	0
6	A	159	0	0	0	0
6	B	151	0	0	1	0
6	C	5	0	0	0	0
6	D	11	0	0	0	0
6	E	2	0	0	0	0
All	All	6161	0	5847	39	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 (39) 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:90:ILE:HD13	1:B:132:MET:SD	2.30	0.71
1:A:90:ILE:HD13	1:A:132:MET:SD	2.35	0.66
1:A:257:GLN:HA	1:A:257:GLN:OE1	2.01	0.60
1:B:174:GLN:HE22	1:B:223:GLN:HG2	1.67	0.60
1:A:231:ILE:HG12	1:A:245[B]:LYS:CG	2.33	0.57
1:B:350:ARG:HD3	1:B:350:ARG:C	2.30	0.56
1:B:350:ARG:HD3	1:B:350:ARG:O	2.06	0.55
1:B:335:ILE:HB	1:B:336:PRO:HD3	1.88	0.55
1:A:349:LEU:HA	1:A:360:ALA:HB1	1.90	0.54
1:A:155:ASN:HB2	3:A:402:GOL:H2	1.91	0.53
1:B:293:ILE:HD11	1:B:347:LEU:HD21	1.91	0.52
1:A:64:ARG:HD3	2:C:12:THR:O	2.11	0.51
1:A:20:ILE:HD11	1:A:53:ILE:HD11	1.94	0.49
1:A:86:LYS:HE3	1:A:105:THR:O	2.13	0.48
1:A:135:GLU:N	1:A:135:GLU:OE1	2.46	0.48
2:C:17:GLN:HA	2:C:17:GLN:OE1	2.13	0.47
1:A:361:GLU:HG2	1:A:361:GLU:O	2.14	0.47
1:B:4:ILE:C	1:B:5:LEU:HD12	2.40	0.47
1:A:232:GLU:HB2	1:A:243:PHE:HB3	1.97	0.46
1:A:231:ILE:HG12	1:A:245[B]:LYS:HG3	1.97	0.46
1:B:293:ILE:CD1	1:B:347:LEU:HD21	2.46	0.45
1:B:11:GLU:OE1	1:B:14:GLN:NE2	2.49	0.45
1:A:53:ILE:HD13	1:A:61:PRO:HB3	1.99	0.45
1:B:231:ILE:HG22	1:B:245:LYS:HB2	1.99	0.45
1:B:217:CYS:HA	1:B:229:HIS:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:217:CYS:HA	1:A:229:HIS:O	2.18	0.44
1:B:302:THR:O	1:B:319:ASN:HA	2.18	0.43
1:B:5:LEU:HD12	1:B:5:LEU:N	2.34	0.43
1:B:264:MET:HA	1:B:274:PHE:O	2.19	0.42
1:A:113:TRP:CZ3	1:A:119:VAL:HG22	2.54	0.42
1:A:302:THR:O	1:A:319:ASN:HA	2.18	0.42
1:B:232:GLU:HB2	1:B:243:PHE:HB3	2.02	0.42
1:A:335:ILE:HB	1:A:336:PRO:HD3	2.01	0.41
1:B:157:ARG:HD3	6:B:434:HOH:O	2.20	0.41
1:A:127:VAL:HG11	1:A:156:TYR:CE1	2.56	0.41
1:A:219:ALA:HB2	1:A:228:LEU:HD12	2.03	0.41
1:A:237:PRO:O	1:A:240:ASN:HB2	2.21	0.41
1:A:99:MET:HB3	1:B:99:MET:HE3	2.04	0.40
1:B:237:PRO:O	1:B:240:ASN:HB2	2.21	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	363/364 (100%)	359 (99%)	4 (1%)	0	100	100
1	B	350/364 (96%)	345 (99%)	4 (1%)	1 (0%)	36	36
2	C	8/21 (38%)	8 (100%)	0	0	100	100
2	D	8/21 (38%)	8 (100%)	0	0	100	100
2	E	5/21 (24%)	5 (100%)	0	0	100	100
All	All	734/791 (93%)	725 (99%)	8 (1%)	1 (0%)	48	49

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	85	GLY

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	313/311 (101%)	306 (98%)	7 (2%)	45	51
1	B	303/311 (97%)	298 (98%)	5 (2%)	53	60
2	C	8/17 (47%)	8 (100%)	0	100	100
2	D	8/17 (47%)	8 (100%)	0	100	100
2	E	6/17 (35%)	5 (83%)	1 (17%)	2	1
All	All	638/673 (95%)	625 (98%)	13 (2%)	50	54

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	53	ILE
1	A	119	VAL
1	A	228	LEU
1	A	245[A]	LYS
1	A	245[B]	LYS
1	A	257	GLN
1	A	321	LYS
1	B	56	ASN
1	B	157	ARG
1	B	207	GLU
1	B	228	LEU
1	B	284	LEU
2	E	9	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	258	ASN

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Mol	Chain	Res	Type
1	B	174	GLN
1	B	343	GLN
2	D	17	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

3 non-standard protein/DNA/RNA residues are 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	$\# Z > 2$
2	SEP	C	14	2	8,9,10	0.71	0	7,12,14	0.79	0
2	SEP	D	14	2	8,9,10	0.57	0	7,12,14	1.27	1 (14%)
2	SEP	E	14	2	8,9,10	0.62	0	7,12,14	0.74	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
2	SEP	C	14	2	-	0/6/8/10	-
2	SEP	D	14	2	-	0/6/8/10	-
2	SEP	E	14	2	-	3/6/8/10	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	14	SEP	OG-CB-CA	-2.18	106.02	108.14

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	E	14	SEP	CB-OG-P-O1P
2	E	14	SEP	CB-OG-P-O2P
2	E	14	SEP	CB-OG-P-O3P

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides 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
3	GOL	A	401	-	5,5,5	0.20	0	5,5,5	0.72	0
3	GOL	A	402	-	5,5,5	0.27	0	5,5,5	0.50	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
3	GOL	A	401	-	-	2/4/4/4	-
3	GOL	A	402	-	-	3/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	401	GOL	C1-C2-C3-O3
3	A	402	GOL	O1-C1-C2-C3
3	A	402	GOL	O1-C1-C2-O2
3	A	401	GOL	O2-C2-C3-O3
3	A	402	GOL	O2-C2-C3-O3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	402	GOL	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

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	360/364 (98%)	0.71	26 (7%)	21 23	13, 26, 46, 78	5 (1%)
1	B	351/364 (96%)	0.93	40 (11%)	10 10	16, 30, 51, 76	1 (0%)
2	C	10/21 (47%)	1.32	4 (40%)	1 1	25, 27, 61, 69	0
2	D	10/21 (47%)	1.02	2 (20%)	3 3	16, 21, 46, 52	0
2	E	7/21 (33%)	1.91	3 (42%)	0 1	35, 37, 57, 68	0
All	All	738/791 (93%)	0.84	75 (10%)	12 13	13, 28, 51, 78	6 (0%)

All (75) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	4	ILE	6.0
1	A	44	VAL	5.9
1	B	349	LEU	5.6
1	B	353	VAL	4.7
1	A	360	ALA	4.3
1	A	208	GLY	4.3
1	A	222	GLY	4.1
1	B	351	MET	4.1
2	D	7	GLY	4.0
1	B	354	ARG	3.9
1	B	345	PRO	3.9
1	B	352	ALA	3.8
1	B	222	GLY	3.7
1	B	224	ALA	3.7
1	B	350	ARG	3.5
1	B	5	LEU	3.5
1	B	208	GLY	3.4
1	A	268	GLU	3.2
1	A	245[A]	LYS	3.1
1	A	223	GLN	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	145	HIS	3.1
2	E	8	GLY	3.1
2	D	17	GLN	3.0
2	C	17	GLN	2.9
1	A	45	GLY	2.9
1	B	334	ILE	2.9
2	E	9	ASN	2.9
1	B	175	ASN	2.8
2	C	16	LEU	2.8
1	B	245	LYS	2.8
1	B	231	ILE	2.7
1	A	357	LEU	2.7
1	B	339	THR	2.6
1	B	190	VAL	2.6
2	C	7	GLY	2.6
1	A	9	PHE	2.6
1	A	150	GLY	2.5
1	B	279	TYR	2.5
1	A	56	ASN	2.5
1	A	281	TYR	2.5
1	B	147	SER	2.5
1	A	359	GLY	2.5
1	B	293	ILE	2.5
1	B	233	VAL	2.4
1	A	238	THR	2.4
1	A	69	ASP	2.3
1	B	188	ARG	2.3
2	E	15	PRO	2.3
1	A	364	PHE	2.3
1	A	62	ILE	2.3
1	B	298	ILE	2.3
1	A	311	ALA	2.3
1	B	335	ILE	2.2
1	B	347	LEU	2.2
1	B	237	PRO	2.2
1	B	254	PRO	2.2
1	B	135	GLU	2.1
2	C	8	GLY	2.1
1	B	321	LYS	2.1
1	B	209	ASN	2.1
1	A	235	THR	2.1
1	A	47	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	257	GLN	2.1
1	B	194	ILE	2.1
1	B	180	ALA	2.1
1	B	60	ASN	2.1
1	B	204	PHE	2.1
1	A	224	ALA	2.1
1	B	336	PRO	2.1
1	B	186	VAL	2.0
1	A	240	ASN	2.0
1	A	10	GLN	2.0
1	B	325	LEU	2.0
1	B	151	CYS	2.0
1	A	239	GLY	2.0

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
2	SEP	E	14	10/11	0.70	0.16	42,53,73,78	0
2	SEP	C	14	10/11	0.90	0.10	32,45,51,52	0
2	SEP	D	14	10/11	0.91	0.09	22,27,34,35	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides 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
3	GOL	A	402	6/6	0.85	0.15	35,40,43,45	0
3	GOL	A	401	6/6	0.89	0.11	22,25,25,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	NA	A	404	1/1	0.93	0.15	55,55,55,55	0
4	CL	A	403	1/1	0.99	0.03	20,20,20,20	0

6.5 Other polymers [i](#)

There are no such residues in this entry.