



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 23, 2024 – 01:15 AM EDT

PDB ID : 6L0V
Title : Structure of RLD2 BRX domain bound to LZYZ CCL motif
Authors : Hirano, Y.; Futrutani, M.; Nishimura, T.; Taniguchi, M.; Morita, M.T.;
Hakoshima, T.
Deposited on : 2019-09-27
Resolution : 1.35 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 : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
EDS : 2.37.1
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) : 2.37.1

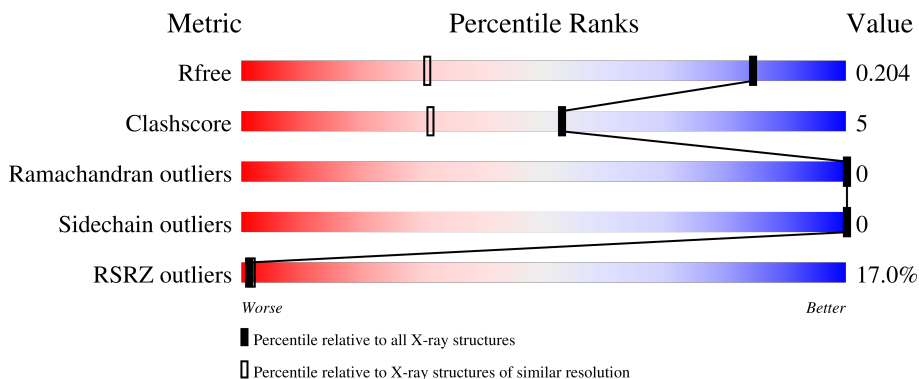
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.35 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	1385 (1.36-1.32)
Clashscore	141614	1417 (1.36-1.32)
Ramachandran outliers	138981	1397 (1.36-1.32)
Sidechain outliers	138945	1397 (1.36-1.32)
RSRZ outliers	127900	1369 (1.36-1.32)

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	63	 8% 92% 5% •
1	C	63	 13% 92% 5% •
1	E	63	 30% 79% 16% 5%
1	G	63	 27% 92% • 5%
2	B	16	 12% 88% 12%

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Mol	Chain	Length	Quality of chain
2	D	16	 6% 81% 19%
2	F	16	 94% 6%
2	H	16	 88% 12%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	PEG	A	1101	-	-	X	-
4	EDO	E	1101	-	-	X	-

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3001 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 RLD2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	61	539	337	101	100	1	0	3	0
1	C	61	558	347	106	104	1	0	5	0
1	E	60	532	331	103	97	1	0	3	0
1	G	60	531	331	102	97	1	0	3	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1004	GLY	-	expression tag	UNP F4K0X5
A	1005	PRO	-	expression tag	UNP F4K0X5
C	1004	GLY	-	expression tag	UNP F4K0X5
C	1005	PRO	-	expression tag	UNP F4K0X5
E	1004	GLY	-	expression tag	UNP F4K0X5
E	1005	PRO	-	expression tag	UNP F4K0X5
G	1004	GLY	-	expression tag	UNP F4K0X5
G	1005	PRO	-	expression tag	UNP F4K0X5

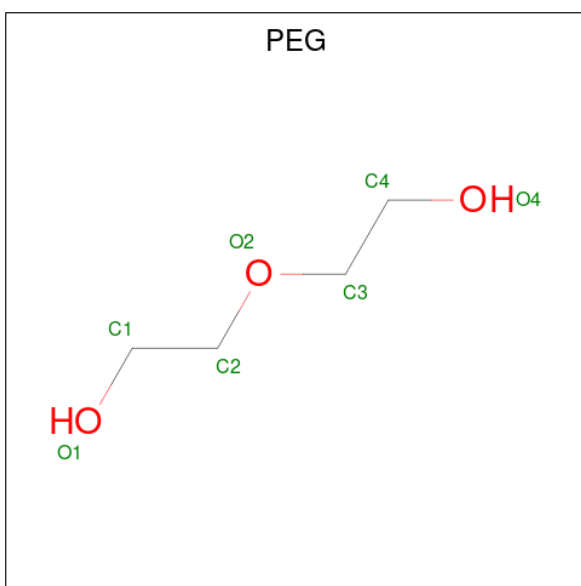
- Molecule 2 is a protein called NGR2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	B	16	131	87	19	25	0	0	0
2	D	16	131	87	19	25	0	0	0
2	F	16	131	87	19	25	0	0	0
2	H	16	131	87	19	25	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	272	GLY	-	expression tag	UNP Q5XVG3
B	273	PRO	-	expression tag	UNP Q5XVG3
D	272	GLY	-	expression tag	UNP Q5XVG3
D	273	PRO	-	expression tag	UNP Q5XVG3
F	272	GLY	-	expression tag	UNP Q5XVG3
F	273	PRO	-	expression tag	UNP Q5XVG3
H	272	GLY	-	expression tag	UNP Q5XVG3
H	273	PRO	-	expression tag	UNP Q5XVG3

- Molecule 3 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C₄H₁₀O₃).



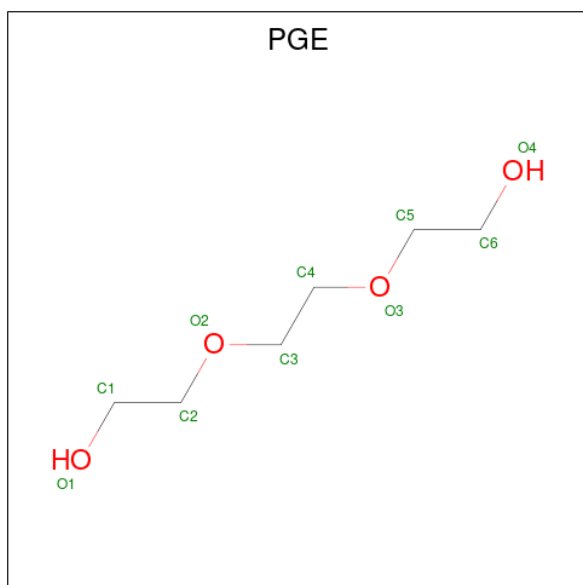
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			7	4	3		

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total	C	O	0	0
			4	2	2		
4	C	1	Total	C	O	0	0
			4	2	2		
4	E	1	Total	C	O	0	0
			4	2	2		
4	E	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C₆H₁₄O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	G	1	Total	C	O	0	0
			10	6	4		

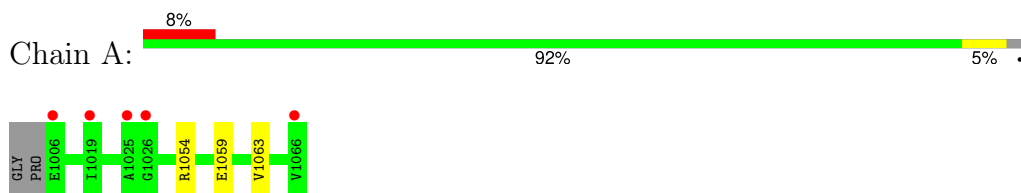
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	76	Total	O	0	0
			76	76		
6	B	17	Total	O	0	0
			17	17		
6	C	69	Total	O	0	0
			69	69		
6	D	16	Total	O	0	0
			16	16		
6	E	31	Total	O	0	0
			31	31		
6	F	23	Total	O	0	0
			23	23		
6	G	34	Total	O	0	0
			34	34		
6	H	18	Total	O	0	0
			18	18		

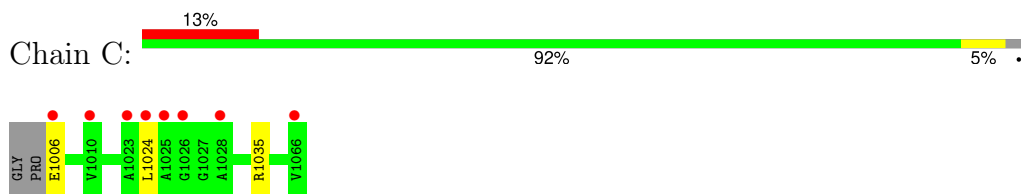
3 Residue-property plots [i](#)

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.

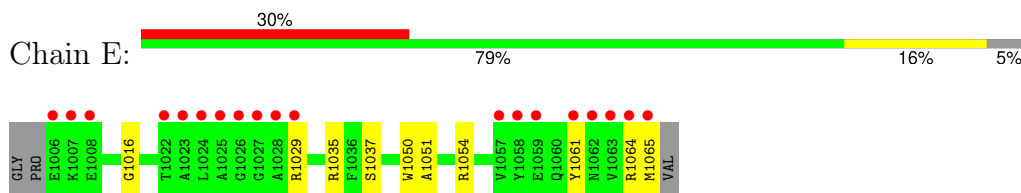
- Molecule 1: RLD2



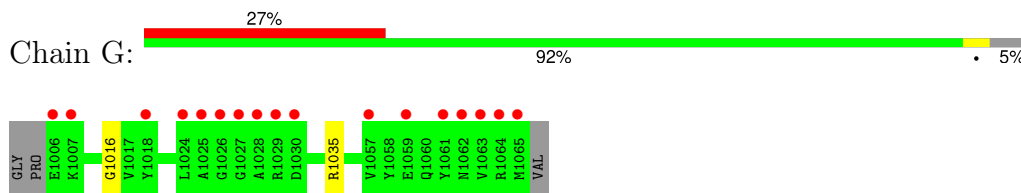
- Molecule 1: RLD2



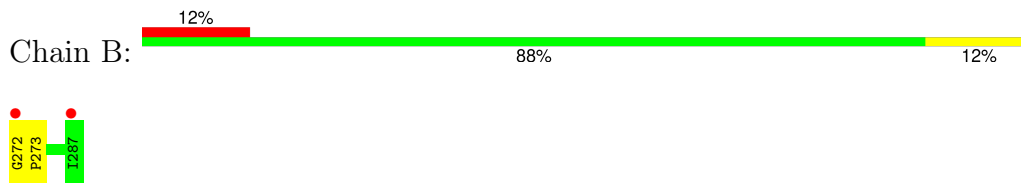
- Molecule 1: RLD2



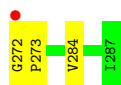
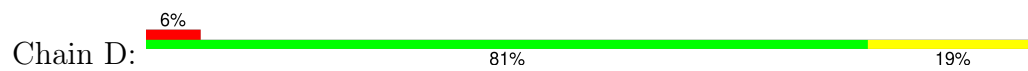
- Molecule 1: RLD2



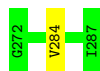
- Molecule 2: NGR2



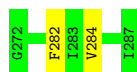
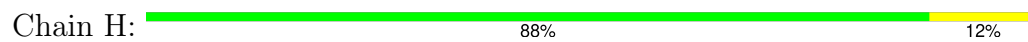
- Molecule 2: NGR2



● Molecule 2: NGR2



● Molecule 2: NGR2



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	89.67Å 31.24Å 128.87Å 90.00° 91.54° 90.00°	Depositor
Resolution (Å)	42.94 – 1.35 42.94 – 1.35	Depositor EDS
% Data completeness (in resolution range)	95.0 (42.94-1.35) 95.4 (42.94-1.35)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.47 (at 1.35Å)	Xtrriage
Refinement program	PHENIX (1.12_2829: ???)	Depositor
R, R_{free}	0.177 , 0.201 0.181 , 0.204	Depositor DCC
R_{free} test set	3735 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	16.5	Xtrriage
Anisotropy	0.144	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 56.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.55$, $\langle L^2 \rangle = 0.40$	Xtrriage
Estimated twinning fraction	0.022 for -h,-k,l	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	3001	wwPDB-VP
Average B, all atoms (Å ²)	27.0	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 43.72 % 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 1.6934e-04. 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PGE, PEG, EDO

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	0.46	0/550	0.65	0/739
1	C	0.48	0/569	0.69	0/764
1	E	0.38	0/543	0.59	0/730
1	G	0.38	0/542	0.54	0/730
2	B	0.37	0/134	0.55	0/180
2	D	0.37	0/134	0.55	0/180
2	F	0.31	0/134	0.53	0/180
2	H	0.36	0/134	0.55	0/180
All	All	0.41	0/2740	0.61	0/3683

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 [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	539	0	513	6	0
1	C	558	0	528	4	0
1	E	532	0	501	14	0
1	G	531	0	499	2	0
2	B	131	0	131	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	131	0	131	2	0
2	F	131	0	131	1	0
2	H	131	0	131	2	0
3	A	7	0	10	5	0
4	B	4	0	6	0	0
4	C	4	0	6	0	0
4	E	8	0	12	6	0
5	G	10	0	14	2	0
6	A	76	0	0	1	0
6	B	17	0	0	0	0
6	C	69	0	0	1	0
6	D	16	0	0	0	0
6	E	31	0	0	0	0
6	F	23	0	0	0	0
6	G	34	0	0	0	0
6	H	18	0	0	0	0
All	All	3001	0	2613	29	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 5.

All (29) 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:C:1006:GLU:HB2	1:C:1024:LEU:HD12	1.61	0.82
1:E:1016:GLY:HA2	4:E:1102:EDO:H11	1.66	0.77
1:G:1016:GLY:HA2	5:G:1101:PGE:H22	1.72	0.70
1:E:1054[B]:ARG:HH22	1:E:1065:MET:HE1	1.56	0.69
1:A:1063:VAL:O	3:A:1101:PEG:H41	1.94	0.67
1:E:1051:ALA:HA	1:E:1054[A]:ARG:HH21	1.64	0.62
1:A:1054[B]:ARG:NH2	6:A:1202:HOH:O	2.40	0.53
1:C:1035[B]:ARG:HG2	2:D:284:VAL:HG22	1.92	0.51
1:E:1061:TYR:CD1	4:E:1101:EDO:H22	2.45	0.51
1:E:1029:ARG:HH12	4:E:1101:EDO:H21	1.75	0.50
1:E:1065:MET:HE3	1:E:1065:MET:HA	1.93	0.50
1:A:1059:GLU:OE2	3:A:1101:PEG:H12	2.12	0.49
1:E:1064:ARG:O	1:E:1064:ARG:HG3	2.11	0.49
2:B:272:GLY:HA3	2:B:273:PRO:C	2.33	0.49
2:D:272:GLY:HA3	2:D:273:PRO:C	2.34	0.47
1:A:1059:GLU:HG3	3:A:1101:PEG:H12	1.97	0.47
1:E:1054[B]:ARG:NH2	1:E:1065:MET:HE1	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1029:ARG:HH12	4:E:1101:EDO:C2	2.27	0.46
1:E:1037:SER:OG	4:E:1102:EDO:H22	2.16	0.45
1:A:1059:GLU:CG	3:A:1101:PEG:H12	2.46	0.45
1:G:1035:ARG:HG2	2:H:284:VAL:HG22	1.97	0.45
1:E:1061:TYR:HD1	4:E:1101:EDO:H22	1.82	0.45
1:A:1063:VAL:O	3:A:1101:PEG:C4	2.65	0.45
1:E:1035:ARG:HG2	2:F:284:VAL:HG22	2.00	0.43
1:E:1050:TRP:CZ2	1:E:1054[B]:ARG:HG3	2.53	0.43
1:E:1065:MET:HE3	1:E:1065:MET:CA	2.50	0.41
1:C:1035[B]:ARG:HD3	6:C:1264:HOH:O	2.20	0.41
1:C:1006:GLU:CB	1:C:1024:LEU:HA	2.51	0.41
5:G:1101:PGE:H42	2:H:282:PHE:CZ	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	62/63 (98%)	61 (98%)	1 (2%)	0	100	100
1	C	64/63 (102%)	63 (98%)	1 (2%)	0	100	100
1	E	61/63 (97%)	60 (98%)	1 (2%)	0	100	100
1	G	61/63 (97%)	60 (98%)	1 (2%)	0	100	100
2	B	14/16 (88%)	14 (100%)	0	0	100	100
2	D	14/16 (88%)	14 (100%)	0	0	100	100
2	F	14/16 (88%)	14 (100%)	0	0	100	100
2	H	14/16 (88%)	14 (100%)	0	0	100	100
All	All	304/316 (96%)	300 (99%)	4 (1%)	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	54/53 (102%)	54 (100%)	0	100	100
1	C	56/53 (106%)	56 (100%)	0	100	100
1	E	52/53 (98%)	52 (100%)	0	100	100
1	G	52/53 (98%)	52 (100%)	0	100	100
2	B	15/15 (100%)	15 (100%)	0	100	100
2	D	15/15 (100%)	15 (100%)	0	100	100
2	F	15/15 (100%)	15 (100%)	0	100	100
2	H	15/15 (100%)	15 (100%)	0	100	100
All	All	274/272 (101%)	274 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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](#)

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](#)

6 ligands 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
5	PGE	G	1101	-	9,9,9	0.25	0	8,8,8	0.60	0
4	EDO	E	1102	-	3,3,3	0.30	0	2,2,2	0.64	0
4	EDO	C	1101	-	3,3,3	0.34	0	2,2,2	0.51	0
3	PEG	A	1101	-	6,6,6	0.45	0	5,5,5	0.25	0
4	EDO	B	301	-	3,3,3	0.46	0	2,2,2	0.31	0
4	EDO	E	1101	-	3,3,3	0.39	0	2,2,2	0.40	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	PGE	G	1101	-	-	3/7/7/7	-
4	EDO	E	1102	-	-	1/1/1/1	-
4	EDO	C	1101	-	-	1/1/1/1	-
3	PEG	A	1101	-	-	2/4/4/4	-
4	EDO	B	301	-	-	0/1/1/1	-
4	EDO	E	1101	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	G	1101	PGE	O1-C1-C2-O2
4	C	1101	EDO	O1-C1-C2-O2
5	G	1101	PGE	C6-C5-O3-C4
3	A	1101	PEG	O1-C1-C2-O2
3	A	1101	PEG	C4-C3-O2-C2
5	G	1101	PGE	C4-C3-O2-C2
4	E	1102	EDO	O1-C1-C2-O2

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Mol	Chain	Res	Type	Atoms
4	E	1101	EDO	O1-C1-C2-O2

There are no ring outliers.

4 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	G	1101	PGE	2	0
4	E	1102	EDO	2	0
3	A	1101	PEG	5	0
4	E	1101	EDO	4	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	61/63 (96%)	1.16	5 (8%) 11 13	11, 18, 44, 55	0
1	C	61/63 (96%)	1.20	8 (13%) 3 3	10, 17, 44, 54	0
1	E	60/63 (95%)	1.85	19 (31%) 0 0	15, 32, 67, 84	0
1	G	60/63 (95%)	1.64	17 (28%) 0 0	15, 31, 63, 74	0
2	B	16/16 (100%)	0.75	2 (12%) 3 4	15, 21, 34, 44	0
2	D	16/16 (100%)	0.63	1 (6%) 20 22	15, 21, 34, 47	0
2	F	16/16 (100%)	0.47	0 100 100	17, 25, 35, 38	0
2	H	16/16 (100%)	0.30	0 100 100	18, 23, 34, 35	0
All	All	306/316 (96%)	1.27	52 (16%) 1 2	10, 23, 54, 84	0

All (52) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1025	ALA	12.6
1	C	1025	ALA	12.4
1	A	1026	GLY	9.1
1	E	1025	ALA	8.2
1	E	1065	MET	7.8
1	G	1025	ALA	7.6
1	E	1064	ARG	7.2
1	C	1026	GLY	7.1
1	C	1066	VAL	6.7
1	G	1064	ARG	6.6
1	G	1027	GLY	6.5
1	E	1026	GLY	6.5
1	E	1028	ALA	6.1
1	G	1026	GLY	6.0
1	G	1024	LEU	5.6
1	E	1027	GLY	5.2

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Mol	Chain	Res	Type	RSRZ
1	A	1066	VAL	5.1
1	E	1063	VAL	4.9
1	E	1024	LEU	4.9
1	G	1059[A]	GLU	4.8
1	E	1007	LYS	4.8
1	A	1006	GLU	4.8
1	G	1065	MET	4.7
1	E	1006	GLU	4.6
1	E	1058	TYR	3.8
1	G	1006	GLU	3.7
1	C	1006	GLU	3.6
1	E	1059[A]	GLU	3.6
1	G	1028	ALA	3.5
1	E	1062[A]	ASN	3.1
1	G	1007	LYS	3.1
1	E	1023	ALA	3.0
2	D	272	GLY	3.0
1	G	1063	VAL	2.9
1	G	1057	VAL	2.9
1	C	1010	VAL	2.6
2	B	287	ILE	2.5
1	E	1029	ARG	2.5
1	G	1061	TYR	2.5
1	G	1062[A]	ASN	2.4
2	B	272	GLY	2.4
1	E	1022	THR	2.3
1	C	1028	ALA	2.3
1	E	1057	VAL	2.3
1	A	1019	ILE	2.3
1	C	1023	ALA	2.2
1	G	1029	ARG	2.2
1	G	1030	ASP	2.2
1	G	1018	TYR	2.1
1	E	1061	TYR	2.1
1	E	1008	GLU	2.1
1	C	1024	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

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(\AA^2)	Q<0.9
4	EDO	B	301	4/4	0.23	0.29	54,55,55,55	0
3	PEG	A	1101	7/7	0.61	0.27	31,42,47,48	0
4	EDO	E	1101	4/4	0.73	0.23	51,52,53,53	0
5	PGE	G	1101	10/10	0.76	0.37	40,48,52,52	0
4	EDO	C	1101	4/4	0.84	0.14	36,37,38,42	0
4	EDO	E	1102	4/4	0.94	0.21	31,31,37,39	0

6.5 Other polymers [i](#)

There are no such residues in this entry.