



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 20, 2026 – 06:24 PM UTC

PDB ID : 5LGS / pdb_00005lgs
Title : Crystal structure of mouse CARM1 in complex with ligand P2C3u
Authors : Marechal, N.; Troffer-Charlier, N.; Cura, V.; Bonnefond, L.; Cavarelli, J.
Deposited on : 2016-07-08
Resolution : 2.10 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

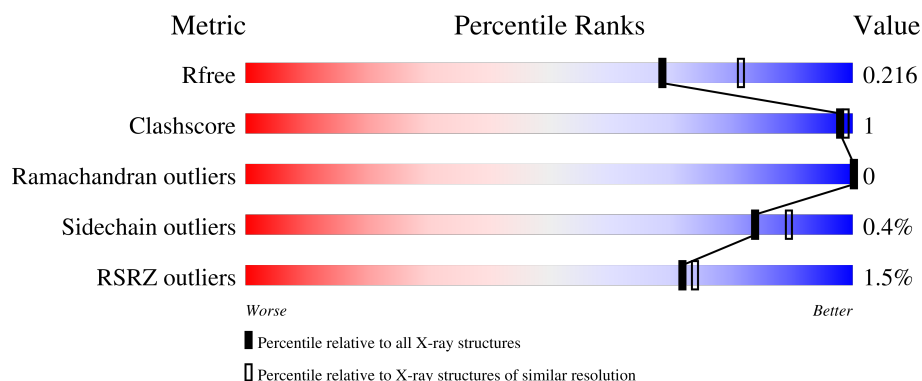
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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.



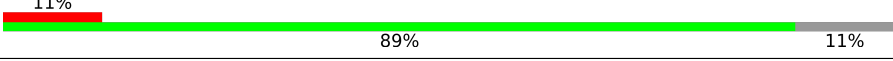
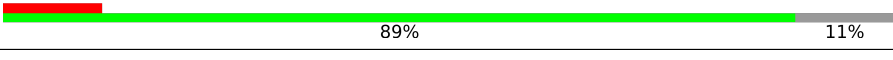
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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 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	361	0% 93% 5%
1	B	361	0% 92% 5%
1	C	361	0% 94% 5%
1	D	361	2% 93% 5%
2	E	9	11% 89% 11%

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Mol	Chain	Length	Quality of chain
2	F	9	
2	G	9	
2	H	9	

2 Entry composition [i](#)

There are 9 unique types of molecules in this entry. The entry contains 23279 atoms, of which 11249 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 Histone-arginine methyltransferase CARM1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	344	Total	C	H	N	O	S	0	6	0
			5498	1788	2725	460	510	15			
1	B	343	Total	C	H	N	O	S	0	9	0
			5500	1788	2728	459	508	17			
1	C	343	Total	C	H	N	O	S	0	5	0
			5451	1776	2700	454	507	14			
1	D	343	Total	C	H	N	O	S	0	9	0
			5499	1788	2727	459	508	17			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	127	GLY	-	expression tag	UNP Q9WVG6
A	128	HIS	-	expression tag	UNP Q9WVG6
A	129	MET	-	expression tag	UNP Q9WVG6
B	127	GLY	-	expression tag	UNP Q9WVG6
B	128	HIS	-	expression tag	UNP Q9WVG6
B	129	MET	-	expression tag	UNP Q9WVG6
C	127	GLY	-	expression tag	UNP Q9WVG6
C	128	HIS	-	expression tag	UNP Q9WVG6
C	129	MET	-	expression tag	UNP Q9WVG6
D	127	GLY	-	expression tag	UNP Q9WVG6
D	128	HIS	-	expression tag	UNP Q9WVG6
D	129	MET	-	expression tag	UNP Q9WVG6

- Molecule 2 is a protein called Polyadenylate-binding protein 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	E	8	Total	C	H	N	O		0	0	0
			116	39	57	11	9				
2	F	9	Total	C	H	N	O		0	0	0
			132	44	66	12	10				

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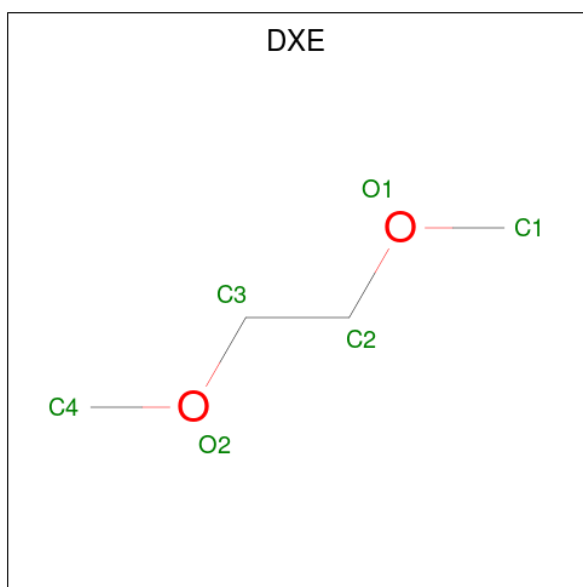
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	G	8	Total	C	H	N	O	0	0	0
			116	39	57	11	9			
2	H	8	Total	C	H	N	O	0	0	0
			116	39	57	11	9			

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



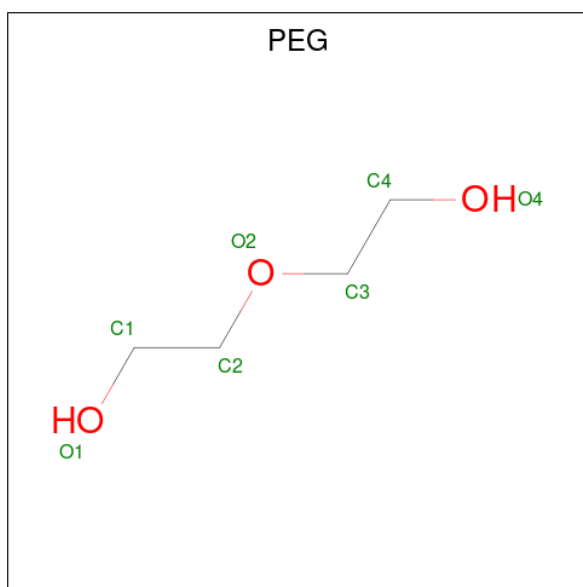
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is 1,2-DIMETHOXYETHANE (CCD ID: DXE) (formula: C₄H₁₀O₂).



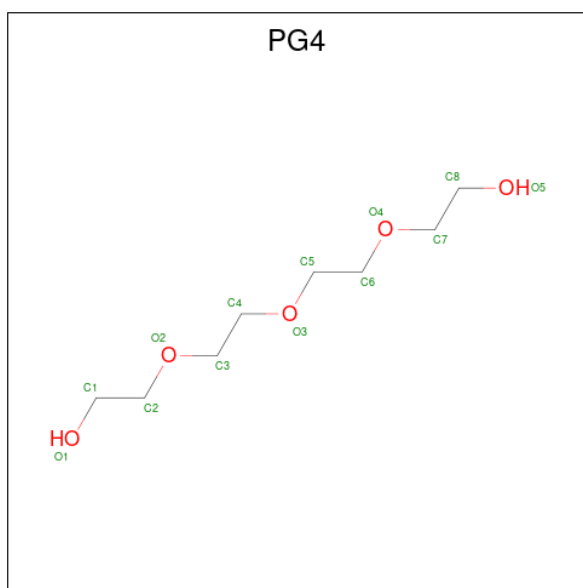
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			16	4	10	2		
4	B	1	Total	C	H	O	0	0
			16	4	10	2		
4	D	1	Total	C	H	O	0	0
			16	4	10	2		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



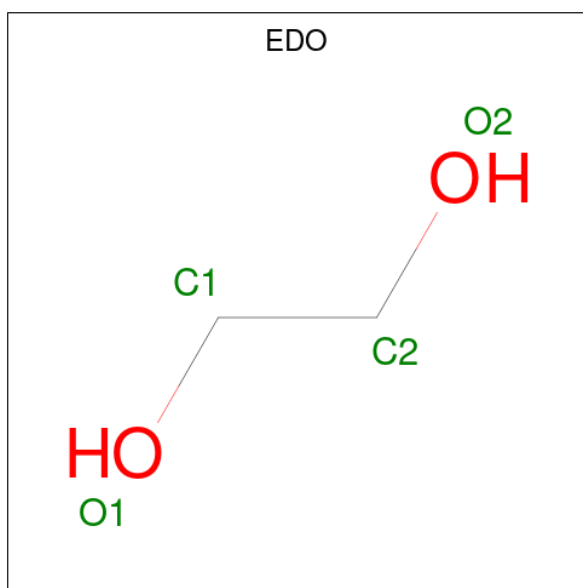
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	H	O	0	0
			17	4	10	3		

- Molecule 6 is TETRAETHYLENE GLYCOL (CCD ID: PG4) (formula: $C_8H_{18}O_5$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	B	1	Total	C	H	O	0	0
			31	8	18	5		

- Molecule 7 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



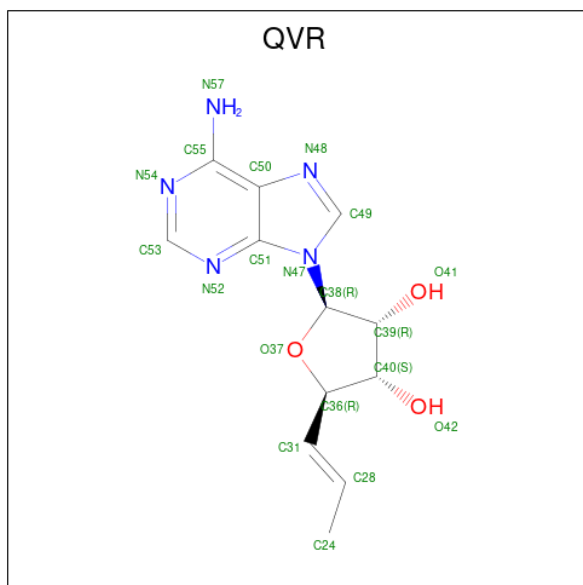
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	C	1	Total	C	H	O	0	0
			10	2	6	2		
7	C	1	Total	C	H	O	0	0
			10	2	6	2		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	D	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 8 is (2 {R},3 {R},4 {S},5 {R})-2-(6-aminopurin-9-yl)-5-[({E})-prop-1-enyl]oxolane-3,4-diol (CCD ID: QVR) (formula: C₁₂H₁₅N₅O₃).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
8	E	1	Total	C	H	N	O	0	0
			34	12	14	5	3		
8	F	1	Total	C	H	N	O	0	0
			34	12	14	5	3		
8	G	1	Total	C	H	N	O	0	0
			34	12	14	5	3		
8	H	1	Total	C	H	N	O	0	0
			34	12	14	5	3		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	194	Total	O	0	0
			194	194		
9	B	171	Total	O	0	0
			171	171		
9	C	109	Total	O	0	0
			109	109		
9	D	89	Total	O	0	0
			89	89		

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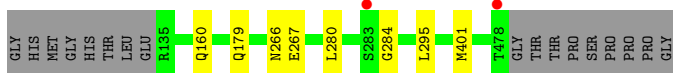
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	E	7	Total	O	0	0
			7	7		
9	F	7	Total	O	0	0
			7	7		
9	G	2	Total	O	0	0
			2	2		
9	H	5	Total	O	0	0
			5	5		

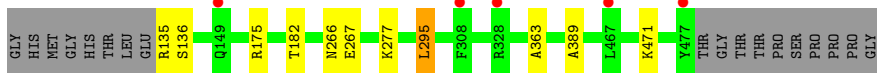
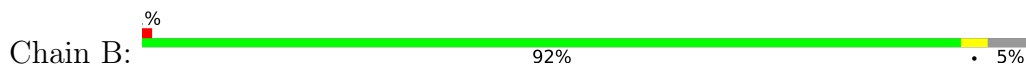
3 Residue-property plots [i](#)

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: Histone-arginine methyltransferase CARM1



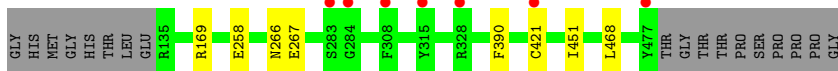
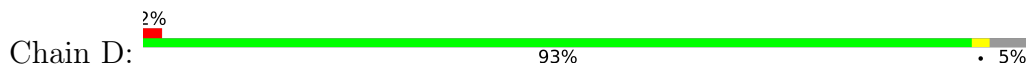
- Molecule 1: Histone-arginine methyltransferase CARM1



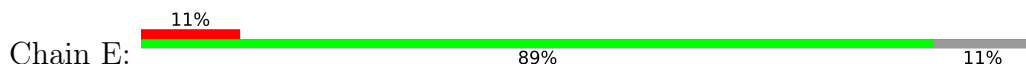
- Molecule 1: Histone-arginine methyltransferase CARM1



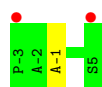
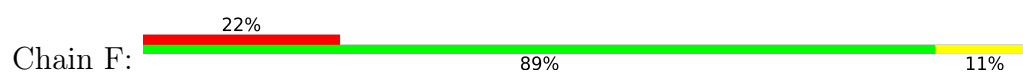
- Molecule 1: Histone-arginine methyltransferase CARM1



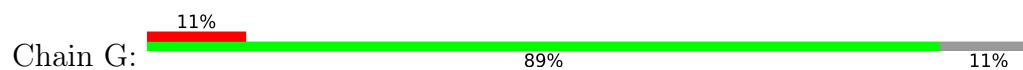
- Molecule 2: Polyadenylate-binding protein 1



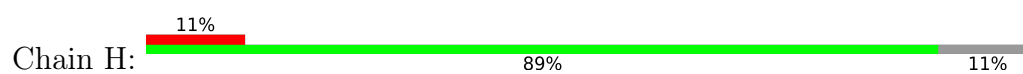
- Molecule 2: Polyadenylate-binding protein 1



- Molecule 2: Polyadenylate-binding protein 1



- Molecule 2: Polyadenylate-binding protein 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	74.99Å 98.60Å 208.17Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.97 – 2.10 47.97 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.9 (47.97-2.10) 99.9 (47.97-2.10)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.50 (at 2.10Å)	Xtriage
Refinement program	PHENIX (dev_2386: ???)	Depositor
R, R_{free}	0.186 , 0.215 0.188 , 0.216	Depositor DCC
R_{free} test set	4505 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	37.0	Xtriage
Anisotropy	0.328	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 48.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	23279	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 45.95 % 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 1.2281e-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: SO4, EDO, PEG, DXE, PG4, QVR

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	0.11	0/2865	0.30	0/3882
1	B	0.11	0/2884	0.29	0/3906
1	C	0.10	0/2827	0.28	0/3832
1	D	0.10	0/2877	0.27	0/3897
2	E	0.84	0/62	0.81	0/85
2	F	0.72	0/70	0.80	0/96
2	G	0.84	0/62	0.77	0/85
2	H	0.81	0/62	0.74	0/85
All	All	0.16	0/11709	0.30	0/15868

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	2773	2725	2705	4	0
1	B	2772	2728	2682	5	0
1	C	2751	2700	2684	2	0
1	D	2772	2727	2686	4	0
2	E	59	57	59	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	F	66	66	66	1	0
2	G	59	57	59	0	0
2	H	59	57	59	0	0
3	A	5	0	0	0	0
4	A	6	10	10	0	0
4	B	6	10	10	0	0
4	D	6	10	10	0	0
5	A	7	10	10	0	0
6	B	13	18	18	0	0
7	C	8	12	12	0	0
7	D	4	6	6	0	0
8	E	20	14	0	0	0
8	F	20	14	0	0	0
8	G	20	14	0	0	0
8	H	20	14	0	0	0
9	A	194	0	0	1	0
9	B	171	0	0	2	0
9	C	109	0	0	1	0
9	D	89	0	0	0	0
9	E	7	0	0	0	0
9	F	7	0	0	0	0
9	G	2	0	0	0	0
9	H	5	0	0	0	0
All	All	12030	11249	11076	16	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 1.

The worst 5 of 16 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:182:THR:O	9:B:601:HOH:O	2.17	0.58
1:D:169:ARG:NE	1:D:258:GLU:OE2	2.38	0.54
1:D:390:PHE:HE1	1:D:421:CYS:HG	1.60	0.46
1:A:160:GLN:NE2	9:A:610:HOH:O	2.45	0.46
1:D:266:ASN:O	1:D:267:GLU:HB2	2.18	0.43

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	346/361 (96%)	336 (97%)	10 (3%)	0	100	100
1	B	348/361 (96%)	336 (97%)	12 (3%)	0	100	100
1	C	342/361 (95%)	332 (97%)	10 (3%)	0	100	100
1	D	348/361 (96%)	338 (97%)	10 (3%)	0	100	100
2	E	6/9 (67%)	6 (100%)	0	0	100	100
2	F	7/9 (78%)	7 (100%)	0	0	100	100
2	G	6/9 (67%)	6 (100%)	0	0	100	100
2	H	6/9 (67%)	4 (67%)	2 (33%)	0	100	100
All	All	1409/1480 (95%)	1365 (97%)	44 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	304/313 (97%)	303 (100%)	1 (0%)	86	91
1	B	305/313 (97%)	301 (99%)	4 (1%)	61	69
1	C	300/313 (96%)	300 (100%)	0	100	100
1	D	304/313 (97%)	304 (100%)	0	100	100
2	E	6/7 (86%)	6 (100%)	0	100	100
2	F	7/7 (100%)	7 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	G	6/7 (86%)	6 (100%)	0	100	100
2	H	6/7 (86%)	6 (100%)	0	100	100
All	All	1238/1280 (97%)	1233 (100%)	5 (0%)	84	89

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	295	LEU
1	B	135	ARG
1	B	136	SER
1	B	295	LEU
1	B	471	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 8 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	381	HIS
1	D	369	HIS
1	B	381	HIS
1	B	221	GLN
1	C	181	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

13 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	$\# Z > 2$
6	PG4	B	502	-	12,12,12	0.54	0	11,11,11	0.30	0
8	QVR	H	101	2	21,22,22	0.11	0	31,32,32	0.36	0
4	DXE	B	501	-	5,5,5	0.43	0	4,4,4	0.26	0
8	QVR	E	1001	2	21,22,22	0.13	0	31,32,32	0.38	0
4	DXE	A	502	-	5,5,5	0.44	0	4,4,4	0.28	0
3	SO4	A	501	-	4,4,4	0.24	0	6,6,6	0.09	0
7	EDO	C	502	-	3,3,3	0.44	0	2,2,2	0.55	0
5	PEG	A	503	-	6,6,6	0.50	0	5,5,5	0.49	0
7	EDO	C	501	-	3,3,3	0.43	0	2,2,2	0.52	0
4	DXE	D	502	-	5,5,5	0.44	0	4,4,4	0.31	0
8	QVR	F	1001	2	21,22,22	0.12	0	31,32,32	0.36	0
7	EDO	D	501	-	3,3,3	0.45	0	2,2,2	0.52	0
8	QVR	G	101	2	21,22,22	0.11	0	31,32,32	0.36	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
6	PG4	B	502	-	-	1/10/10/10	-
8	QVR	H	101	2	-	0/7/23/23	0/3/3/3
4	DXE	B	501	-	-	0/3/3/3	-
8	QVR	E	1001	2	-	0/7/23/23	0/3/3/3
4	DXE	A	502	-	-	2/3/3/3	-
7	EDO	C	502	-	-	0/1/1/1	-
5	PEG	A	503	-	-	0/4/4/4	-
7	EDO	C	501	-	-	0/1/1/1	-
4	DXE	D	502	-	-	1/3/3/3	-
8	QVR	F	1001	2	-	0/7/23/23	0/3/3/3
7	EDO	D	501	-	-	1/1/1/1	-
8	QVR	G	101	2	-	0/7/23/23	0/3/3/3

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
7	D	501	EDO	O1-C1-C2-O2
6	B	502	PG4	C8-C7-O4-C6
4	A	502	DXE	O1-C2-C3-O2
4	A	502	DXE	C3-C2-O1-C1
4	D	502	DXE	C2-C3-O2-C4

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	344/361 (95%)	-0.31	2 (0%) 85 87	19, 39, 63, 93	2 (0%)
1	B	343/361 (95%)	-0.21	5 (1%) 72 74	20, 43, 66, 133	3 (0%)
1	C	343/361 (95%)	0.14	2 (0%) 85 87	37, 57, 83, 104	0
1	D	343/361 (95%)	0.13	7 (2%) 65 67	27, 56, 79, 106	3 (0%)
2	E	8/9 (88%)	0.65	1 (12%) 8 8	40, 44, 61, 66	0
2	F	9/9 (100%)	0.88	2 (22%) 2 2	41, 49, 82, 105	0
2	G	8/9 (88%)	0.74	1 (12%) 8 8	50, 54, 73, 80	0
2	H	8/9 (88%)	0.78	1 (12%) 8 8	52, 56, 70, 79	0
All	All	1406/1480 (95%)	-0.04	21 (1%) 72 74	19, 50, 78, 133	8 (0%)

The worst 5 of 21 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	F	-3	PRO	4.5
2	E	-2	ALA	3.5
2	G	-2	ALA	3.2
1	D	308	PHE	3.0
1	B	477	TYR	2.7

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 oligosaccharides in this entry.

6.4 Ligands

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
4	DXE	D	502	6/6	0.59	0.20	48,58,63,63	0
4	DXE	B	501	6/6	0.71	0.17	55,66,73,73	0
4	DXE	A	502	6/6	0.74	0.19	43,51,55,55	0
6	PG4	B	502	13/13	0.75	0.18	74,89,98,99	0
7	EDO	C	501	4/4	0.75	0.16	58,70,74,77	0
3	SO4	A	501	5/5	0.83	0.09	89,90,90,91	0
7	EDO	C	502	4/4	0.83	0.13	47,56,57,60	0
5	PEG	A	503	7/7	0.87	0.12	40,48,52,53	0
7	EDO	D	501	4/4	0.90	0.08	53,64,65,66	0
8	QVR	G	101	20/20	0.94	0.07	41,46,56,56	0
8	QVR	H	101	20/20	0.94	0.07	42,45,55,56	0
8	QVR	E	1001	20/20	0.96	0.06	28,31,42,44	0
8	QVR	F	1001	20/20	0.96	0.06	29,33,41,42	0

6.5 Other polymers

There are no such residues in this entry.