



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2026 – 08:57 AM UTC

PDB ID : 5FZC / pdb_00005fzc
Title : Crystal structure of the catalytic domain of human JARID1B in complex with Maybridge fragment 4,5-dihydronaphtho(1,2-b)thiophene-2- carboxylicacid (N11181a) (ligand modelled based on PANDDA event map, SGC - Diamond I04-1 fragment screening)
Authors : Nowak, R.; Krojer, T.; Johansson, C.; Kupinska, K.; Szykowska, A.; Pearce, N.; Talon, R.; Collins, P.; Gileadi, C.; Strain-Damerell, C.; Burgess-Brown, N.A.; Arrowsmith, C.H.; Bountra, C.; Edwards, A.M.; von Delft, F.; Brennan, P.E.; Oppermann, U.
Deposited on : 2016-03-14
Resolution : 2.05 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

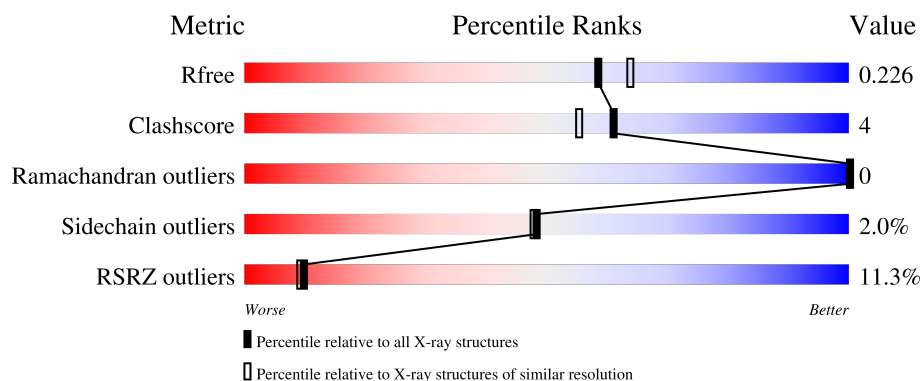
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.05 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	2260 (2.04-2.04)
Clashscore	190562	2333 (2.04-2.04)
Ramachandran outliers	187476	2318 (2.04-2.04)
Sidechain outliers	187428	2318 (2.04-2.04)
RSRZ outliers	180081	2260 (2.04-2.04)

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	479	

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:

Ideal geometry (proteins)	: Engh & Huber (2001)
Ideal geometry (DNA, RNA)	: Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	: 2.49

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
8	CL	A	1772	-	-	X	-

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 4076 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 LYSINE-SPECIFIC DEMETHYLASE 5B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	453	Total	C	N	O	S	0	12	0
			3774	2421	631	684	38			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	SER	-	expression tag	UNP Q9UGL1
A	0	MET	-	expression tag	UNP Q9UGL1
A	102	GLY	-	linker	UNP Q9UGL1
A	103	GLY	-	linker	UNP Q9UGL1
A	104	GLY	-	linker	UNP Q9UGL1
A	105	GLY	-	linker	UNP Q9UGL1

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Zn	0	0
			2	2		

- Molecule 3 is DIMETHYL SULFOXIDE (CCD ID: DMS) (formula: C₂H₆OS).

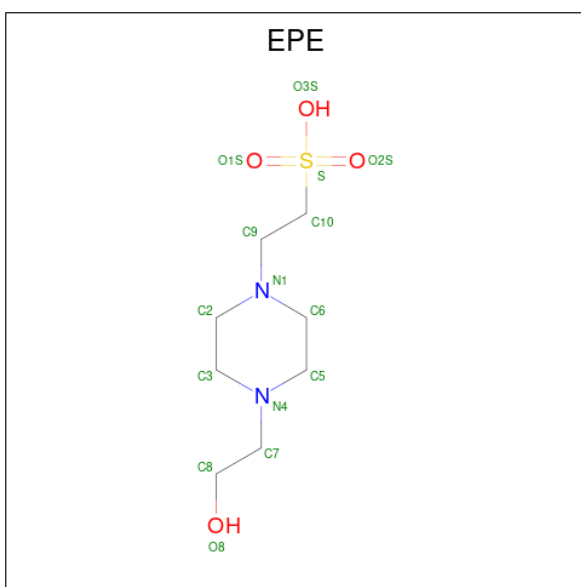


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	O	S	0	0
			4	2	1	1		
3	A	1	Total	C	O	S	0	0
			4	2	1	1		
3	A	1	Total	C	O	S	0	0
			4	2	1	1		

- Molecule 4 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn).

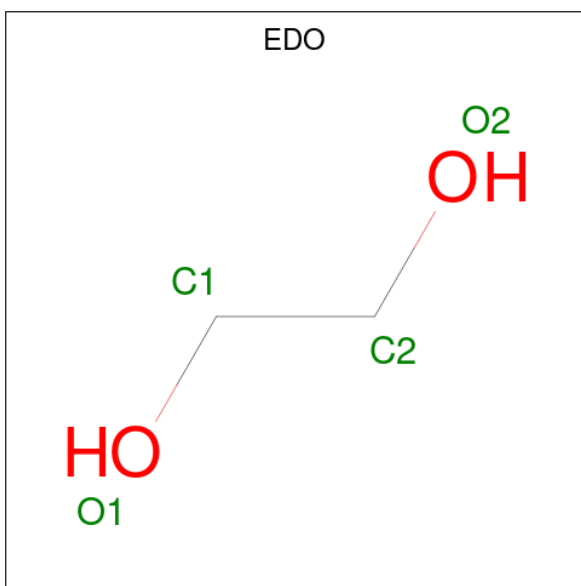
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Mn	0	0
			1	1		

- Molecule 5 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (CCD ID: EPE) (formula: C₈H₁₈N₂O₄S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	A	1	Total	C	N	O	S	0	0
			15	8	2	4	1		

- Molecule 6 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



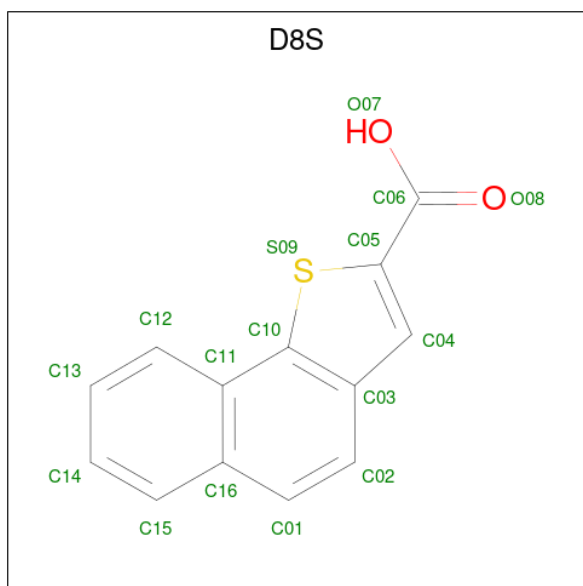
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			4	2	2		
6	A	1	Total	C	O	0	0
			4	2	2		
6	A	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			4	2	2		
6	A	1	Total	C	O	0	0
			4	2	2		
6	A	1	Total	C	O	0	0
			4	2	2		
6	A	1	Total	C	O	0	0
			4	2	2		
6	A	1	Total	C	O	0	0
			4	2	2		
6	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 7 is benzo[g][1]benzothiole-2-carboxylic acid (CCD ID: D8S) (formula: C₁₃H₈O₂S).

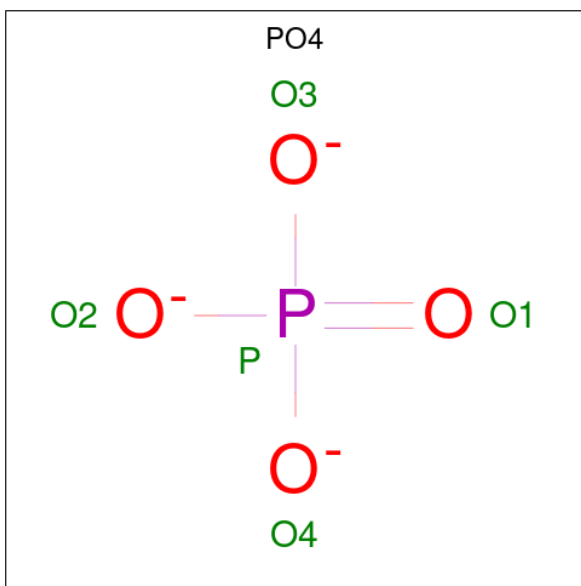


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	A	1	Total	C	O	S	0	0
			16	13	2	1		

- Molecule 8 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

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

- Molecule 9 is PHOSPHATE ION (CCD ID: PO4) (formula: O_4P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
9	A	1	Total	O	P	0	0
			5	4	1		

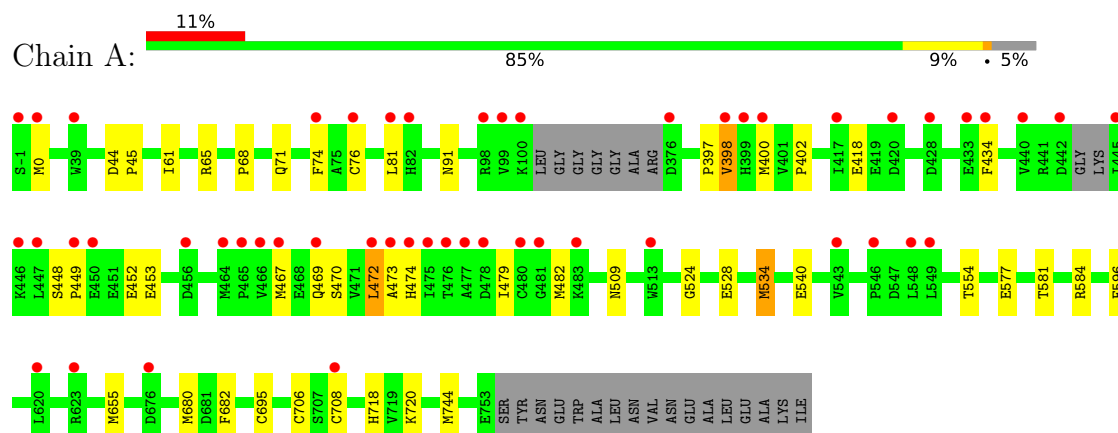
- Molecule 10 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	210	Total	O	0	0
			210	210		

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: LYSINE-SPECIFIC DEMETHYLASE 5B



4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α , β , γ	143.35Å 143.35Å 154.00Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	124.14 – 2.05 124.14 – 2.05	Depositor EDS
% Data completeness (in resolution range)	100.0 (124.14-2.05) 100.0 (124.14-2.05)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.82 (at 2.05Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.192 , 0.225 0.196 , 0.226	Depositor DCC
R_{free} test set	2955 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	41.9	Xtriage
Anisotropy	0.021	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 45.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4076	wwPDB-VP
Average B, all atoms (Å ²)	49.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.63% 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: ZN, EDO, MN, CL, D8S, DMS, PO4, EPE

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	0.54	0/3891	0.77	2/5287 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	398	VAL	N-CA-C	5.63	118.08	111.05
1	A	554	THR	N-CA-C	5.14	116.88	109.07

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	3774	0	3624	30	0
2	A	2	0	0	0	0
3	A	12	0	18	0	0
4	A	1	0	0	0	0
5	A	15	0	17	0	0
6	A	40	0	60	1	0
7	A	16	0	0	0	0
8	A	1	0	0	2	0
9	A	5	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	A	210	0	0	11	0
All	All	4076	0	3719	32	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 4.

All (32) 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)
8:A:1772:CL:CL	10:A:2044:HOH:O	2.23	0.93
1:A:509[B]:ASN:OD1	10:A:2118:HOH:O	2.01	0.79
1:A:91:ASN:ND2	8:A:1772:CL:CL	2.53	0.78
1:A:469:GLN:O	10:A:2095:HOH:O	2.06	0.73
1:A:470:SER:OG	10:A:2093:HOH:O	2.06	0.73
1:A:473:ALA:N	10:A:2093:HOH:O	2.29	0.65
6:A:1770:EDO:O2	10:A:2210:HOH:O	2.14	0.65
1:A:61:ILE:HG22	1:A:581:THR:HG22	1.87	0.57
1:A:398:VAL:HG13	10:A:2076:HOH:O	2.05	0.57
1:A:540:GLU:CD	1:A:540:GLU:H	2.13	0.57
1:A:695:CYS:HB3	1:A:718:HIS:CE1	2.40	0.56
1:A:68:PRO:O	1:A:71:GLN:NE2	2.41	0.54
1:A:472:LEU:HD21	1:A:482:MET:HE2	1.90	0.53
1:A:74:PHE:HE1	1:A:76:CYS:HG	1.58	0.52
1:A:706:CYS:SG	1:A:708:CYS:HB3	2.49	0.51
1:A:448:SER:O	1:A:452:GLU:HG3	2.13	0.48
1:A:680:MET:HE2	1:A:682:PHE:CE2	2.49	0.48
1:A:472:LEU:N	10:A:2093:HOH:O	2.47	0.48
1:A:524:GLY:HA2	1:A:584[A]:ARG:O	2.14	0.48
1:A:65:ARG:HG2	1:A:577:GLU:HG2	1.97	0.46
1:A:534:MET:HE3	1:A:534:MET:HB3	1.80	0.46
1:A:400:MET:O	1:A:402:PRO:HD3	2.16	0.46
1:A:81:LEU:HB3	1:A:434:PHE:CE2	2.52	0.45
1:A:720:LYS:HG2	10:A:2198:HOH:O	2.17	0.44
1:A:434:PHE:HE1	1:A:596:PHE:HE1	1.66	0.44
1:A:655:MET:HE1	1:A:744:MET:HE2	1.98	0.43
1:A:482:MET:HG3	10:A:2099:HOH:O	2.19	0.43
1:A:397:PRO:HA	10:A:2076:HOH:O	2.19	0.42
1:A:400:MET:HB3	1:A:400:MET:HE2	1.78	0.42
1:A:44:ASP:HA	1:A:45:PRO:HD2	1.84	0.42
1:A:449:PRO:O	1:A:453:GLU:HG3	2.20	0.42
1:A:76:CYS:HB2	1:A:81:LEU:HD11	2.01	0.41

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	459/479 (96%)	447 (97%)	12 (3%)	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	418/427 (98%)	409 (98%)	9 (2%)	45	44

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	0	MET
1	A	418	GLU
1	A	467	MET
1	A	472	LEU
1	A	474[A]	HIS
1	A	474[B]	HIS
1	A	479	ILE
1	A	528	GLU
1	A	534	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such

sidechains are listed below:

Mol	Chain	Res	Type
1	A	551	GLN
1	A	652	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 20 ligands modelled in this entry, 4 are monoatomic - leaving 16 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	$\# Z > 2$
6	EDO	A	1766	-	3,3,3	0.61	0	2,2,2	0.08	0
3	DMS	A	1757	-	3,3,3	0.70	0	3,3,3	0.51	0
6	EDO	A	1770	-	3,3,3	0.59	0	2,2,2	0.11	0
9	PO4	A	1773	-	4,4,4	0.84	0	6,6,6	0.49	0
6	EDO	A	1767	-	3,3,3	0.44	0	2,2,2	0.33	0
7	D8S	A	1771	-	18,18,18	2.33	7 (38%)	23,26,26	1.84	7 (30%)
5	EPE	A	1760	-	15,15,15	1.01	1 (6%)	19,20,20	1.74	4 (21%)
3	DMS	A	1756	-	3,3,3	0.61	0	3,3,3	0.41	0
3	DMS	A	1758	-	3,3,3	0.69	0	3,3,3	0.32	0
6	EDO	A	1763	-	3,3,3	0.44	0	2,2,2	0.55	0
6	EDO	A	1761	-	3,3,3	0.74	0	2,2,2	0.18	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	EDO	A	1764	-	3,3,3	0.47	0	2,2,2	0.57	0
6	EDO	A	1768	-	3,3,3	0.47	0	2,2,2	0.42	0
6	EDO	A	1762	-	3,3,3	0.48	0	2,2,2	0.42	0
6	EDO	A	1769	-	3,3,3	0.49	0	2,2,2	0.32	0
6	EDO	A	1765	-	3,3,3	0.52	0	2,2,2	0.37	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	EDO	A	1766	-	-	0/1/1/1	-
6	EDO	A	1770	-	-	1/1/1/1	-
6	EDO	A	1767	-	-	0/1/1/1	-
7	D8S	A	1771	-	-	4/4/4/4	0/3/3/3
5	EPE	A	1760	-	-	1/9/19/19	0/1/1/1
6	EDO	A	1768	-	-	1/1/1/1	-
6	EDO	A	1763	-	-	1/1/1/1	-
6	EDO	A	1761	-	-	0/1/1/1	-
6	EDO	A	1764	-	-	1/1/1/1	-
6	EDO	A	1769	-	-	0/1/1/1	-
6	EDO	A	1762	-	-	1/1/1/1	-
6	EDO	A	1765	-	-	1/1/1/1	-

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	A	1771	D8S	C01-C02	4.61	1.46	1.36
7	A	1771	D8S	C02-C03	4.54	1.48	1.41
7	A	1771	D8S	O08-C06	3.61	1.31	1.22
5	A	1760	EPE	C10-S	3.56	1.82	1.77
7	A	1771	D8S	C01-C16	3.55	1.49	1.42
7	A	1771	D8S	C10-C11	2.92	1.47	1.43
7	A	1771	D8S	C06-C05	2.35	1.53	1.47
7	A	1771	D8S	C03-C10	2.28	1.43	1.40

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	1760	EPE	C5-N4-C3	4.26	118.01	108.84
7	A	1771	D8S	C12-C11-C10	-3.67	118.24	123.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	1760	EPE	O1S-S-C10	3.57	112.12	106.73
7	A	1771	D8S	C06-C05-S09	3.16	127.09	120.14
7	A	1771	D8S	C03-C10-C11	-3.01	120.17	122.76
7	A	1771	D8S	C11-C10-S09	2.98	133.97	125.01
5	A	1760	EPE	C7-N4-C5	2.93	119.05	111.24
5	A	1760	EPE	C7-N4-C3	2.92	119.03	111.24
7	A	1771	D8S	C10-C11-C16	2.83	121.41	117.89
7	A	1771	D8S	C02-C03-C04	-2.74	124.16	132.83
7	A	1771	D8S	C04-C05-S09	-2.13	106.56	113.14

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	A	1771	D8S	S09-C05-C06-O07
7	A	1771	D8S	S09-C05-C06-O08
7	A	1771	D8S	C04-C05-C06-O07
7	A	1771	D8S	C04-C05-C06-O08
6	A	1770	EDO	O1-C1-C2-O2
6	A	1762	EDO	O1-C1-C2-O2
6	A	1764	EDO	O1-C1-C2-O2
6	A	1768	EDO	O1-C1-C2-O2
6	A	1765	EDO	O1-C1-C2-O2
5	A	1760	EPE	C8-C7-N4-C3
6	A	1763	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	1770	EDO	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	453/479 (94%)	0.64	51 (11%) 10 9	16, 45, 81, 107	12 (2%)

All (51) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	474[A]	HIS	5.6
1	A	39[A]	TRP	5.5
1	A	-1	SER	5.4
1	A	398	VAL	5.4
1	A	99	VAL	5.3
1	A	100	LYS	5.1
1	A	74	PHE	4.3
1	A	480	CYS	4.3
1	A	399	HIS	4.2
1	A	76	CYS	4.0
1	A	549	LEU	4.0
1	A	477	ALA	3.9
1	A	466	VAL	3.9
1	A	481	GLY	3.9
1	A	548	LEU	3.8
1	A	475	ILE	3.7
1	A	82[A]	HIS	3.7
1	A	417	ILE	3.7
1	A	445	ILE	3.7
1	A	476	THR	3.6
1	A	473	ALA	3.3
1	A	465	PRO	3.3
1	A	546	PRO	3.3
1	A	472	LEU	3.2
1	A	98[A]	ARG	3.1
1	A	442	ASP	3.1
1	A	513	TRP	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	434	PHE	3.0
1	A	708	CYS	2.9
1	A	0	MET	2.8
1	A	456	ASP	2.8
1	A	447	LEU	2.8
1	A	450	GLU	2.7
1	A	400	MET	2.7
1	A	483	LYS	2.7
1	A	376	ASP	2.6
1	A	467	MET	2.6
1	A	620	LEU	2.5
1	A	420	ASP	2.5
1	A	440	VAL	2.4
1	A	676	ASP	2.4
1	A	464	MET	2.4
1	A	449	PRO	2.4
1	A	428	ASP	2.3
1	A	446	LYS	2.3
1	A	433	GLU	2.2
1	A	623	ARG	2.2
1	A	478	ASP	2.2
1	A	469	GLN	2.1
1	A	543	VAL	2.1
1	A	81	LEU	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 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($\text{\AA}^2$)	Q<0.9
6	EDO	A	1769	4/4	0.63	0.23	79,82,86,89	0
7	D8S	A	1771	16/16	0.75	0.28	54,72,91,92	16
9	PO4	A	1773	5/5	0.77	0.13	65,72,91,94	0
6	EDO	A	1770	4/4	0.81	0.24	49,55,59,63	0
6	EDO	A	1764	4/4	0.82	0.24	52,60,67,67	0
6	EDO	A	1765	4/4	0.85	0.17	53,56,68,73	0
5	EPE	A	1760	15/15	0.89	0.22	34,60,64,66	15
3	DMS	A	1756	4/4	0.90	0.16	52,54,70,90	0
6	EDO	A	1762	4/4	0.90	0.18	55,60,60,70	0
6	EDO	A	1768	4/4	0.91	0.24	44,52,58,60	0
3	DMS	A	1758	4/4	0.91	0.21	40,59,62,69	0
6	EDO	A	1763	4/4	0.91	0.16	54,62,64,73	0
6	EDO	A	1766	4/4	0.91	0.23	43,50,52,57	0
6	EDO	A	1767	4/4	0.91	0.19	52,56,61,66	0
6	EDO	A	1761	4/4	0.93	0.14	33,34,46,55	0
8	CL	A	1772	1/1	0.94	0.11	67,67,67,67	0
2	ZN	A	1755	1/1	0.96	0.14	104,104,104,104	0
3	DMS	A	1757	4/4	0.97	0.14	54,58,59,67	0
2	ZN	A	1754	1/1	0.99	0.03	37,37,37,37	0
4	MN	A	1759	1/1	1.00	0.02	39,39,39,39	0

6.5 Other polymers [i](#)

There are no such residues in this entry.