



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 11:48 AM EDT

PDB ID : 5FZL / pdb_00005fzl
Title : Crystal structure of the catalytic domain of human JARID1B in complex with 3D fragment 3-methyl-N-pyridin-4-yl-1,2-oxazole-5-carboxamide (N09954a) (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 : 2.55 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

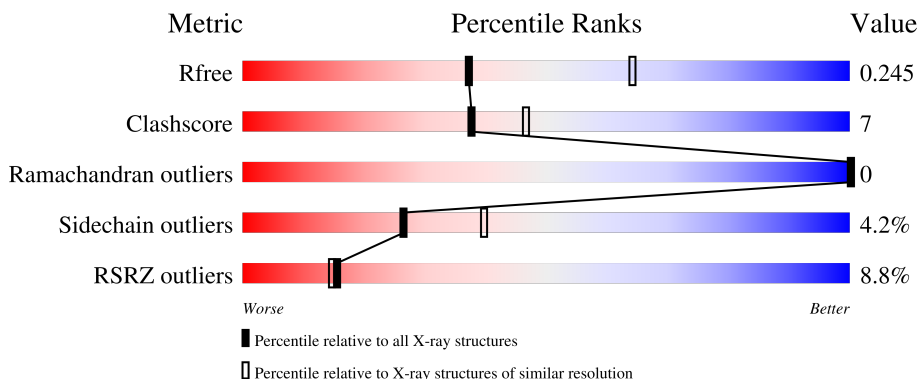
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.55 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	1091 (2.54-2.54)
Clashscore	190562	1120 (2.54-2.54)
Ramachandran outliers	187476	1106 (2.54-2.54)
Sidechain outliers	187428	1106 (2.54-2.54)
RSRZ outliers	180081	1091 (2.54-2.54)

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	

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

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 3864 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	452	Total	C	N	O	S	0	8	0
			3723	2392	620	673	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	1	Total	Zn	0	0
			1	1		

- 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		

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

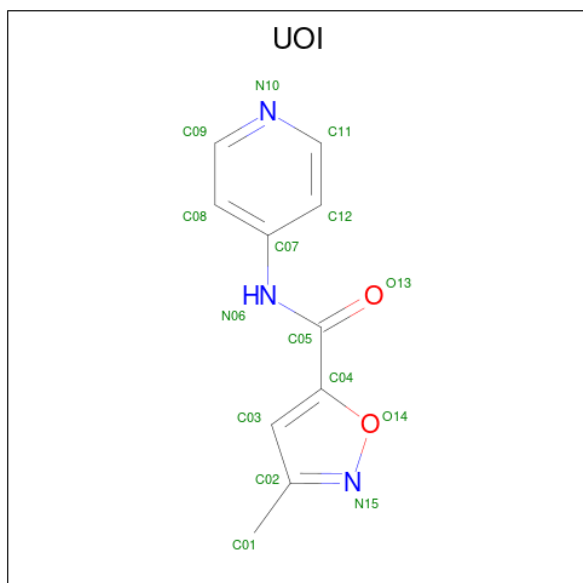
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Mn	0	0
			1	1		

- Molecule 5 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



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

- Molecule 6 is 3-methyl-N-(pyridin-4-yl)-1,2-oxazole-5-carboxamide (CCD ID: UOI) (formula: $C_{10}H_9N_3O_2$).

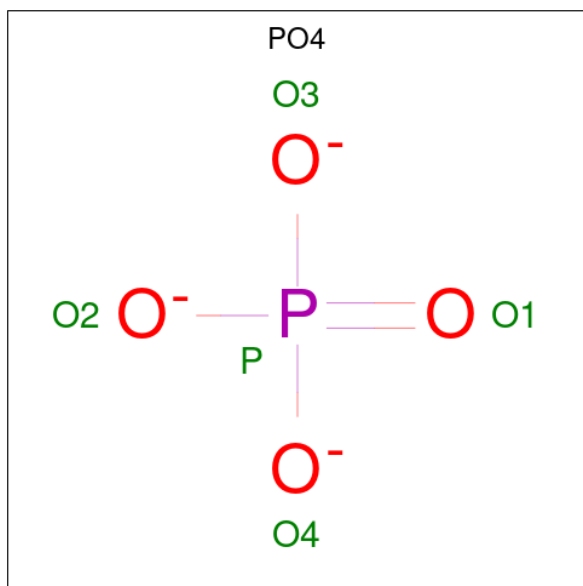


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total C N O 15 10 3 2	0	0

- Molecule 7 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

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

- Molecule 8 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P).



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

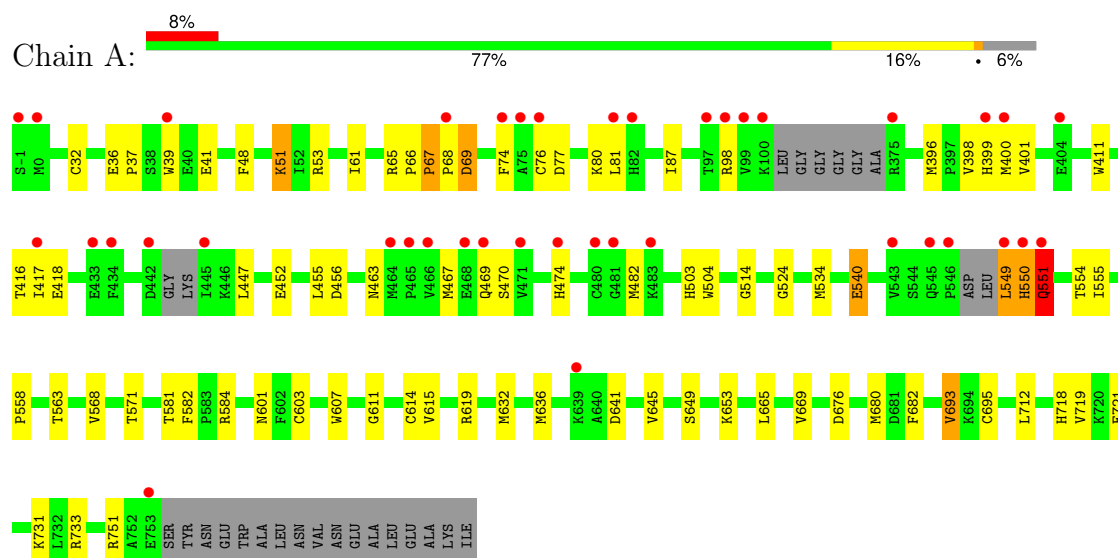
- Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	74	Total O 74 74	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: 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	142.07Å 142.07Å 151.05Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	71.03 – 2.55 71.03 – 2.55	Depositor EDS
% Data completeness (in resolution range)	100.0 (71.03-2.55) 92.4 (71.03-2.55)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.21 (at 2.55Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.191 , 0.240 0.209 , 0.245	Depositor DCC
R_{free} test set	1478 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	53.7	Xtriage
Anisotropy	0.219	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 43.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3864	wwPDB-VP
Average B, all atoms (Å ²)	65.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.96% 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: MN, UOI, DMS, CL, EDO, PO4, ZN

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	0/3838	0.87	5/5215 (0.1%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	551	GLN	N-CA-C	-6.33	101.58	110.50
1	A	66	PRO	O-C-N	5.99	124.06	121.31
1	A	645	VAL	N-CA-C	5.38	116.15	110.72
1	A	67	PRO	CA-C-N	5.36	125.18	119.28
1	A	67	PRO	C-N-CA	5.36	125.18	119.28

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	3723	0	3578	51	0
2	A	1	0	0	0	0
3	A	4	0	6	0	0
4	A	1	0	0	0	0
5	A	40	0	60	1	0
6	A	15	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	A	1	0	0	0	0
8	A	5	0	0	0	0
9	A	74	0	0	4	0
All	All	3864	0	3644	52	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 (52) 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:A:549:LEU:HG	1:A:550:HIS:HD2	1.38	0.89
1:A:641:ASP:O	1:A:751:ARG:NH1	2.16	0.77
1:A:470:SER:OG	9:A:2026:HOH:O	2.05	0.74
1:A:549:LEU:HG	1:A:550:HIS:CD2	2.22	0.74
1:A:36:GLU:OE2	1:A:65:ARG:NH1	2.24	0.70
1:A:452:GLU:HA	1:A:455:LEU:HB2	1.81	0.63
1:A:48:PHE:HA	1:A:51:LYS:HG3	1.81	0.62
1:A:39[B]:TRP:HE1	1:A:69:ASP:CG	2.08	0.61
1:A:76:CYS:HB2	1:A:81:LEU:HD11	1.83	0.60
1:A:632:MET:HG2	1:A:636:MET:HE2	1.83	0.60
5:A:1757:EDO:H22	5:A:1760:EDO:H11	1.83	0.60
1:A:680:MET:HE2	1:A:682:PHE:CE1	2.37	0.59
1:A:61:ILE:HG22	1:A:581:THR:HG22	1.86	0.58
1:A:39[B]:TRP:HE1	1:A:69:ASP:CB	2.18	0.57
1:A:398:VAL:HG23	1:A:399:HIS:ND1	2.19	0.57
1:A:53:ARG:HG3	1:A:582:PHE:HE2	1.70	0.56
1:A:731:LYS:HD2	1:A:733[B]:ARG:NH2	2.20	0.56
1:A:731:LYS:HD2	1:A:733[B]:ARG:HH21	1.70	0.56
1:A:693:VAL:HG21	1:A:712:LEU:HD13	1.88	0.55
1:A:718:HIS:HB3	1:A:721:GLU:HG3	1.91	0.51
1:A:733[A]:ARG:NH2	9:A:2068:HOH:O	2.10	0.51
1:A:396:MET:HE3	1:A:401:VAL:HG22	1.94	0.50
1:A:98:ARG:CZ	1:A:551:GLN:NE2	2.74	0.49
1:A:32:CYS:SG	1:A:571:THR:HB	2.54	0.48
1:A:74:PHE:HE2	1:A:76:CYS:HG	1.62	0.48
1:A:514:GLY:O	9:A:2040:HOH:O	2.20	0.47
1:A:39[B]:TRP:HE1	1:A:69:ASP:HB2	1.79	0.47
1:A:463:ASN:O	1:A:467:MET:HG3	2.15	0.47
1:A:603:CYS:HB3	1:A:607:TRP:CE3	2.50	0.47
1:A:400:MET:HE2	1:A:400:MET:HB3	1.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:411:TRP:CZ2	1:A:558:PRO:HD3	2.50	0.46
1:A:504:TRP:CE2	1:A:584[A]:ARG:HD3	2.51	0.46
1:A:676:ASP:OD2	1:A:731:LYS:HE2	2.15	0.46
1:A:695:CYS:HB3	1:A:718:HIS:CE1	2.51	0.46
1:A:669:VAL:HG12	1:A:719:VAL:HG21	1.97	0.46
1:A:558:PRO:HB3	1:A:568:VAL:HG11	1.99	0.45
1:A:540:GLU:CD	1:A:540:GLU:H	2.26	0.44
1:A:555:ILE:HA	9:A:2032:HOH:O	2.18	0.43
1:A:37:PRO:O	1:A:67:PRO:HG3	2.18	0.43
1:A:619:ARG:HG3	1:A:695:CYS:SG	2.59	0.42
1:A:41:GLU:H	1:A:41:GLU:HG2	1.66	0.42
1:A:77:ASP:OD2	1:A:80:LYS:HG3	2.21	0.41
1:A:74:PHE:CE2	1:A:76:CYS:SG	3.13	0.41
1:A:503:HIS:HA	1:A:614:CYS:SG	2.60	0.41
1:A:447:LEU:HD22	1:A:455:LEU:HD22	2.02	0.41
1:A:524:GLY:HA2	1:A:584[A]:ARG:O	2.20	0.41
1:A:37:PRO:HD2	1:A:65:ARG:O	2.20	0.41
1:A:67:PRO:HA	1:A:68:PRO:HD3	1.83	0.41
1:A:649:SER:O	1:A:653:LYS:HG3	2.20	0.41
1:A:416:THR:HG22	1:A:418:GLU:HB2	2.04	0.40
1:A:665:LEU:O	1:A:669:VAL:HG13	2.21	0.40
1:A:611:GLY:O	1:A:615:VAL:HG23	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	452/479 (94%)	429 (95%)	23 (5%)	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	411/427 (96%)	394 (96%)	17 (4%)	27	41

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	51	LYS
1	A	69	ASP
1	A	87	ILE
1	A	417	ILE
1	A	456	ASP
1	A	469	GLN
1	A	474	HIS
1	A	482	MET
1	A	534	MET
1	A	540	GLU
1	A	549	LEU
1	A	550	HIS
1	A	551	GLN
1	A	554	THR
1	A	563	THR
1	A	601	ASN
1	A	693	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	462	ASN
1	A	550	HIS
1	A	601	ASN

5.3.3 RNA ⓘ

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](#)

Of 16 ligands modelled in this entry, 3 are monoatomic - leaving 13 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	EDO	A	1758	-	3,3,3	0.40	0	2,2,2	0.52	0
8	PO4	A	1769	-	4,4,4	0.84	0	6,6,6	0.48	0
6	UOI	A	1767	4	16,16,16	1.32	3 (18%)	18,21,21	2.96	9 (50%)
5	EDO	A	1765	-	3,3,3	0.47	0	2,2,2	0.37	0
5	EDO	A	1766	-	3,3,3	0.49	0	2,2,2	0.34	0
5	EDO	A	1763	-	3,3,3	0.48	0	2,2,2	0.41	0
5	EDO	A	1761	-	3,3,3	0.55	0	2,2,2	0.22	0
5	EDO	A	1762	-	3,3,3	0.55	0	2,2,2	0.22	0
5	EDO	A	1759	-	3,3,3	0.47	0	2,2,2	0.72	0
3	DMS	A	1755	-	3,3,3	0.72	0	3,3,3	0.57	0
5	EDO	A	1760	-	3,3,3	0.43	0	2,2,2	0.75	0
5	EDO	A	1764	-	3,3,3	0.48	0	2,2,2	0.38	0
5	EDO	A	1757	-	3,3,3	0.59	0	2,2,2	0.12	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	EDO	A	1758	-	-	0/1/1/1	-
6	UOI	A	1767	4	-	0/8/8/8	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	EDO	A	1765	-	-	0/1/1/1	-
5	EDO	A	1766	-	-	0/1/1/1	-
5	EDO	A	1763	-	-	0/1/1/1	-
5	EDO	A	1761	-	-	0/1/1/1	-
5	EDO	A	1762	-	-	0/1/1/1	-
5	EDO	A	1759	-	-	1/1/1/1	-
5	EDO	A	1760	-	-	1/1/1/1	-
5	EDO	A	1764	-	-	0/1/1/1	-
5	EDO	A	1757	-	-	0/1/1/1	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	1767	UOI	C02-N15	2.73	1.35	1.30
6	A	1767	UOI	C05-N06	2.62	1.41	1.35
6	A	1767	UOI	C03-C04	2.53	1.39	1.35

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A	1767	UOI	C01-C02-N15	8.96	127.30	119.97
6	A	1767	UOI	C03-C02-N15	-5.66	107.42	111.54
6	A	1767	UOI	O14-N15-C02	2.71	109.68	105.18
6	A	1767	UOI	C04-C05-N06	-2.28	110.32	115.47
6	A	1767	UOI	O13-C05-C04	2.28	124.68	121.10
6	A	1767	UOI	C01-C02-C03	-2.23	125.28	128.62
6	A	1767	UOI	C07-N06-C05	2.20	131.35	127.45
6	A	1767	UOI	C12-C11-N10	-2.10	120.01	123.60
6	A	1767	UOI	C11-N10-C09	2.09	121.64	116.86

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	1760	EDO	O1-C1-C2-O2
5	A	1759	EDO	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	1760	EDO	1	0
5	A	1757	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	452/479 (94%)	0.43	40 (8%) 15 15	22, 61, 103, 131	8 (1%)

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	39[A]	TRP	7.5
1	A	546	PRO	6.0
1	A	549	LEU	5.9
1	A	543	VAL	5.7
1	A	468	GLU	5.3
1	A	82[A]	HIS	4.5
1	A	445	ILE	4.4
1	A	-1	SER	4.3
1	A	100	LYS	4.3
1	A	75	ALA	4.2
1	A	474	HIS	3.9
1	A	74	PHE	3.7
1	A	399	HIS	3.6
1	A	434	PHE	3.5
1	A	0	MET	3.4
1	A	98	ARG	3.4
1	A	442	ASP	3.4
1	A	466	VAL	3.3
1	A	480	CYS	3.3
1	A	76	CYS	3.3
1	A	471	VAL	3.0
1	A	97	THR	3.0
1	A	417	ILE	2.9
1	A	551	GLN	2.9
1	A	433	GLU	2.9
1	A	550	HIS	2.9
1	A	99	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	545	GLN	2.9
1	A	465	PRO	2.8
1	A	753	GLU	2.7
1	A	375	ARG	2.6
1	A	469	GLN	2.5
1	A	481	GLY	2.4
1	A	483	LYS	2.4
1	A	404[A]	GLU	2.3
1	A	68	PRO	2.3
1	A	464	MET	2.1
1	A	81	LEU	2.1
1	A	400	MET	2.0
1	A	639	LYS	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
5	EDO	A	1765	4/4	0.58	0.28	85,86,99,104	0
8	PO4	A	1769	5/5	0.74	0.14	88,91,111,117	0
5	EDO	A	1763	4/4	0.83	0.20	65,75,76,83	0
7	CL	A	1768	1/1	0.88	0.11	87,87,87,87	0
5	EDO	A	1761	4/4	0.88	0.17	63,76,78,93	0
5	EDO	A	1760	4/4	0.92	0.18	60,64,68,73	0
5	EDO	A	1758	4/4	0.93	0.22	71,71,71,95	0
3	DMS	A	1755	4/4	0.94	0.15	49,70,73,89	0
5	EDO	A	1759	4/4	0.94	0.18	48,59,70,76	0
5	EDO	A	1766	4/4	0.95	0.18	77,81,85,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	UOI	A	1767	15/15	0.95	0.11	42,46,60,66	15
5	EDO	A	1764	4/4	0.95	0.14	54,59,60,64	0
5	EDO	A	1762	4/4	0.95	0.12	49,52,58,60	0
5	EDO	A	1757	4/4	0.96	0.16	40,47,49,57	0
4	MN	A	1756	1/1	1.00	0.05	46,46,46,46	0
2	ZN	A	1754	1/1	1.00	0.02	49,49,49,49	0

6.5 Other polymers [i](#)

There are no such residues in this entry.