



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 12:46 PM UTC

PDB ID : 5FZK / pdb_00005fzk
Title : Crystal structure of the catalytic domain of human JARID1B in complex with 3D fragment N,3-dimethyl-N-(pyridin-3-ylmethyl)-1,2-oxazole-5- carboxamide (N10051a) (ligand modelled based on PANDDA event map, SGC - Diamond I04-1 fragment screening)
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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

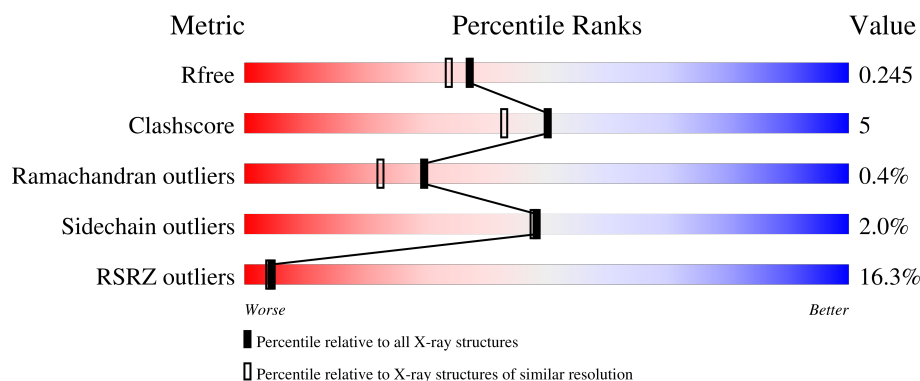
1 Overall quality at a glance

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
3	CL	A	1755	-	-	X	-

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 4043 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	9	0
			3742	2404	622	678	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 CHLORIDE ION (CCD ID: CL) (formula: Cl).

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

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

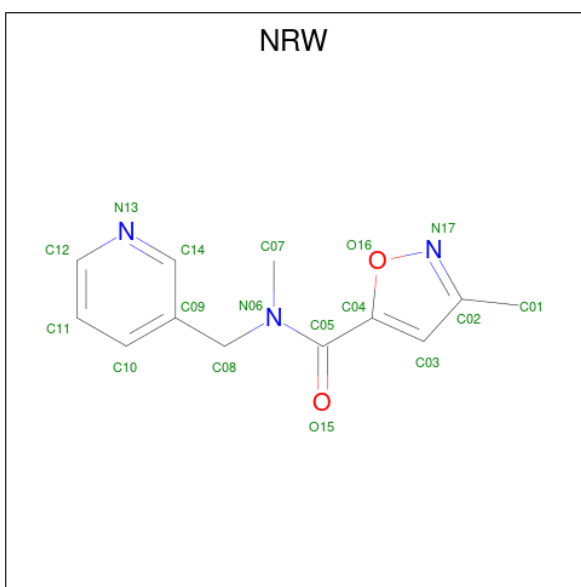
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Mn	0	0
			1	1		

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



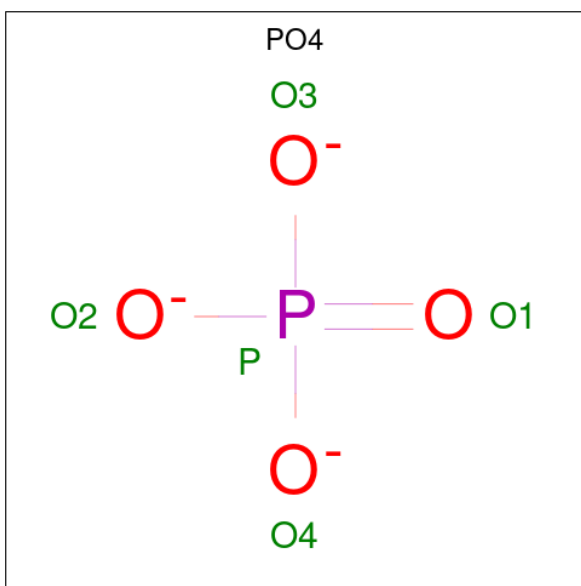
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 6 is N,3-dimethyl-N-[(pyridin-3-yl)methyl]-1,2-oxazole-5-carboxamide (CCD ID: NRW) (formula: C₁₂H₁₃N₃O₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	A	1	Total	C	N	O	0	0
			17	12	3	2		

- Molecule 7 is PHOSPHATE ION (CCD ID: PO4) (formula: O_4P).



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

- Molecule 8 is DIMETHYL SULFOXIDE (CCD ID: DMS) (formula: C_2H_6OS).



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

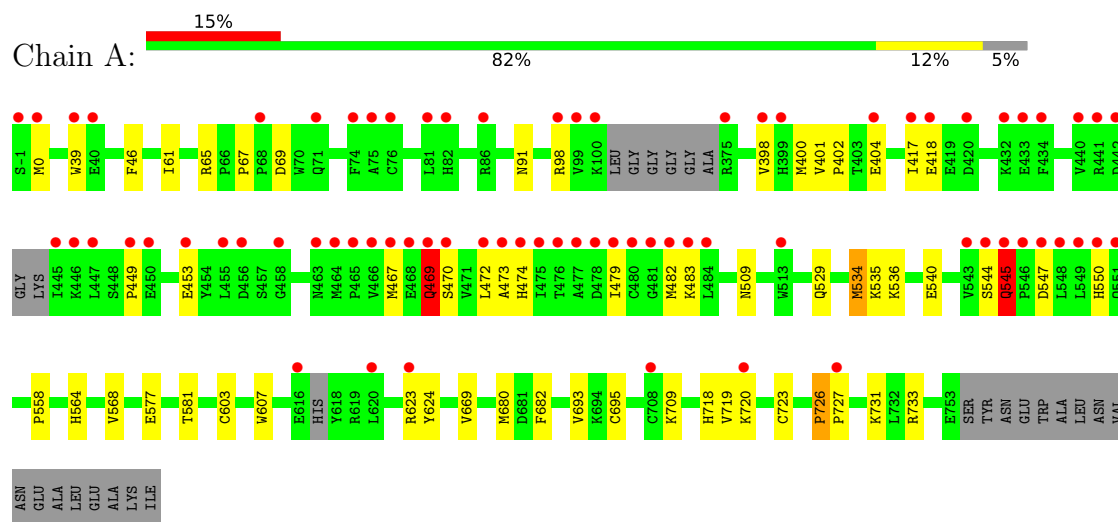
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	232	Total	O	0	0
			232	232		

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	142.05Å 142.05Å 152.13Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	71.03 – 2.05 71.03 – 2.05	Depositor EDS
% Data completeness (in resolution range)	100.0 (71.03-2.05) 94.2 (71.03-2.05)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.25 (at 2.05Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.204 , 0.238 0.212 , 0.245	Depositor DCC
R_{free} test set	2776 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	38.1	Xtriage
Anisotropy	0.077	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 35.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4043	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.58% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, NRW, DMS, MN, EDO, CL, PO4

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	1/3856 (0.0%)	0.82	10/5238 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	564	HIS	CE1-NE2	6.48	1.39	1.32

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	545	GLN	CB-CA-C	8.35	120.50	109.65
1	A	726	PRO	CA-C-N	6.84	127.41	119.47
1	A	726	PRO	C-N-CA	6.84	127.41	119.47
1	A	469	GLN	N-CA-C	6.70	125.06	110.80
1	A	545	GLN	CA-C-N	5.42	126.62	119.84
1	A	545	GLN	C-N-CA	5.42	126.62	119.84
1	A	67	PRO	CA-C-N	5.39	125.47	119.32
1	A	67	PRO	C-N-CA	5.39	125.47	119.32
1	A	401	VAL	CA-C-N	5.07	124.98	119.76
1	A	401	VAL	C-N-CA	5.07	124.98	119.76

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	3742	0	3606	38	0
2	A	1	0	0	0	0
3	A	1	0	0	2	0
4	A	1	0	0	0	0
5	A	36	0	54	0	0
6	A	17	0	0	0	0
7	A	5	0	0	0	0
8	A	8	0	12	1	0
9	A	232	0	0	16	1
All	All	4043	0	3672	40	1

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 (40) 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)
3:A:1755:CL:CL	9:A:2048:HOH:O	2.21	0.95
1:A:91:ASN:ND2	3:A:1755:CL:CL	2.51	0.81
1:A:509[B]:ASN:OD1	9:A:2131:HOH:O	1.98	0.80
1:A:469:GLN:O	9:A:2108:HOH:O	2.10	0.69
8:A:1769:DMS:H12	9:A:2126:HOH:O	1.97	0.63
1:A:467:MET:O	9:A:2107:HOH:O	2.17	0.59
1:A:470:SER:HB3	9:A:2107:HOH:O	2.03	0.59
1:A:479:ILE:HG13	1:A:483:LYS:HD2	1.88	0.56
1:A:65:ARG:NH1	1:A:577:GLU:OE2	2.38	0.55
1:A:695:CYS:HB3	1:A:718:HIS:CE1	2.42	0.54
1:A:98:ARG:NH2	9:A:2057:HOH:O	2.18	0.53
1:A:720:LYS:HG2	9:A:2216:HOH:O	2.08	0.53
1:A:733[A]:ARG:NH2	9:A:2219:HOH:O	2.34	0.52
1:A:623:ARG:NH2	9:A:2128:HOH:O	2.24	0.49
1:A:540:GLU:CD	1:A:540:GLU:H	2.20	0.49
1:A:467:MET:N	9:A:2107:HOH:O	2.45	0.49
1:A:473:ALA:N	9:A:2106:HOH:O	2.29	0.49
1:A:558:PRO:HB3	1:A:568:VAL:HG11	1.94	0.48
1:A:472:LEU:N	9:A:2106:HOH:O	2.46	0.48
1:A:709:LYS:HG3	1:A:723:CYS:HB3	1.95	0.48
1:A:398:VAL:HG13	9:A:2082:HOH:O	2.14	0.47
1:A:544:SER:O	1:A:545:GLN:NE2	2.47	0.47
1:A:669:VAL:HG12	1:A:719:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:400:MET:O	1:A:402:PRO:HD3	2.15	0.46
1:A:545:GLN:HG3	1:A:550:HIS:HB3	1.96	0.46
1:A:46:PHE:HB2	1:A:469:GLN:OE1	2.16	0.46
1:A:529:GLN:HG3	9:A:2139:HOH:O	2.15	0.45
1:A:603:CYS:HB3	1:A:607:TRP:CE3	2.51	0.45
1:A:726:PRO:HA	1:A:727:PRO:HD3	1.88	0.45
1:A:400:MET:HE2	1:A:400:MET:HB3	1.81	0.44
1:A:61:ILE:HG22	1:A:581:THR:HG22	1.99	0.44
1:A:535:LYS:HE3	1:A:535:LYS:HB2	1.67	0.43
1:A:680:MET:HE2	1:A:682:PHE:CZ	2.53	0.43
1:A:534:MET:HE3	1:A:534:MET:HB2	1.77	0.42
1:A:39[B]:TRP:HE1	1:A:69:ASP:CG	2.27	0.42
1:A:731:LYS:HD2	1:A:733[B]:ARG:NH2	2.35	0.42
1:A:404[A]:GLU:HG2	9:A:2086:HOH:O	2.21	0.41
1:A:449:PRO:O	1:A:453:GLU:HG2	2.20	0.41
1:A:536:LYS:HA	1:A:536:LYS:HD2	1.88	0.41
1:A:547:ASP:HA	1:A:624:TYR:CD1	2.57	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:A:2199:HOH:O	9:A:2202:HOH:O[10_665]	2.11	0.09

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	454/479 (95%)	441 (97%)	11 (2%)	2 (0%)	30 22

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	0	MET
1	A	469	GLN

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	414/427 (97%)	406 (98%)	8 (2%)	50	50

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	417	ILE
1	A	418	GLU
1	A	469	GLN
1	A	474	HIS
1	A	482	MET
1	A	534	MET
1	A	545	GLN
1	A	693	VAL

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	462	ASN
1	A	529	GLN

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](#)

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	1760	-	3,3,3	0.43	0	2,2,2	0.63	0
5	EDO	A	1762	-	3,3,3	0.55	0	2,2,2	0.18	0
5	EDO	A	1757	-	3,3,3	0.72	0	2,2,2	0.18	0
5	EDO	A	1763	-	3,3,3	0.53	0	2,2,2	0.22	0
8	DMS	A	1768	-	3,3,3	0.68	0	3,3,3	0.35	0
7	PO4	A	1767	-	4,4,4	0.88	0	6,6,6	0.43	0
5	EDO	A	1764	-	3,3,3	0.56	0	2,2,2	0.36	0
6	NRW	A	1766	4	18,18,18	1.95	3 (16%)	22,24,24	2.47	6 (27%)
8	DMS	A	1769	-	3,3,3	0.66	0	3,3,3	0.84	0
5	EDO	A	1761	-	3,3,3	0.49	0	2,2,2	0.38	0
5	EDO	A	1759	-	3,3,3	0.43	0	2,2,2	0.64	0
5	EDO	A	1758	-	3,3,3	0.50	0	2,2,2	0.37	0
5	EDO	A	1765	-	3,3,3	0.49	0	2,2,2	0.28	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	1760	-	-	1/1/1/1	-
5	EDO	A	1762	-	-	0/1/1/1	-
5	EDO	A	1757	-	-	0/1/1/1	-
5	EDO	A	1763	-	-	0/1/1/1	-
5	EDO	A	1764	-	-	0/1/1/1	-
6	NRW	A	1766	4	-	1/12/12/12	0/2/2/2
5	EDO	A	1761	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	EDO	A	1759	-	-	1/1/1/1	-
5	EDO	A	1758	-	-	0/1/1/1	-
5	EDO	A	1765	-	-	0/1/1/1	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	1766	NRW	C05-N06	5.64	1.45	1.35
6	A	1766	NRW	C04-C05	3.41	1.55	1.48
6	A	1766	NRW	C03-C04	3.38	1.41	1.35

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A	1766	NRW	C01-C02-N17	6.57	125.35	119.97
6	A	1766	NRW	O16-C04-C03	-4.76	106.72	109.86
6	A	1766	NRW	O15-C05-N06	-4.04	117.01	122.54
6	A	1766	NRW	C03-C02-N17	-3.82	108.76	111.54
6	A	1766	NRW	C09-C08-N06	3.41	119.44	113.02
6	A	1766	NRW	C04-C05-N06	2.57	125.08	119.60

There are no chirality outliers.

All (3) 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
6	A	1766	NRW	O16-C04-C05-N06

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	A	1769	DMS	1	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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%)	0.84	74 (16%) 4 4	15, 42, 77, 104	9 (1%)

All (74) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	39[A]	TRP	8.6
1	A	76	CYS	6.9
1	A	546	PRO	6.4
1	A	476	THR	5.9
1	A	549	LEU	5.9
1	A	398	VAL	5.7
1	A	466	VAL	5.7
1	A	473	ALA	5.4
1	A	474	HIS	5.3
1	A	445	ILE	5.2
1	A	99	VAL	4.9
1	A	100	LYS	4.8
1	A	74	PHE	4.6
1	A	399	HIS	4.5
1	A	469	GLN	4.4
1	A	86[A]	ARG	4.3
1	A	475	ILE	4.3
1	A	478	ASP	4.1
1	A	433	GLU	4.0
1	A	465	PRO	4.0
1	A	-1	SER	4.0
1	A	468	GLU	4.0
1	A	81	LEU	3.9
1	A	543	VAL	3.9
1	A	434	PHE	3.9
1	A	447	LEU	3.8
1	A	545	GLN	3.8

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Mol	Chain	Res	Type	RSRZ
1	A	464	MET	3.6
1	A	548	LEU	3.6
1	A	0	MET	3.5
1	A	480	CYS	3.5
1	A	82[A]	HIS	3.4
1	A	472	LEU	3.4
1	A	477	ALA	3.2
1	A	98	ARG	3.2
1	A	481	GLY	3.1
1	A	449	PRO	3.1
1	A	482	MET	3.1
1	A	467	MET	3.0
1	A	375	ARG	3.0
1	A	550	HIS	3.0
1	A	458	GLY	2.9
1	A	417	ILE	2.9
1	A	450	GLU	2.8
1	A	442	ASP	2.8
1	A	75	ALA	2.8
1	A	620	LEU	2.8
1	A	708	CYS	2.7
1	A	420	ASP	2.7
1	A	71	GLN	2.6
1	A	513	TRP	2.6
1	A	404[A]	GLU	2.5
1	A	463	ASN	2.5
1	A	551	GLN	2.5
1	A	40	GLU	2.4
1	A	432	LYS	2.4
1	A	441	ARG	2.4
1	A	484	LEU	2.4
1	A	440	VAL	2.4
1	A	479	ILE	2.4
1	A	483	LYS	2.4
1	A	418	GLU	2.3
1	A	623	ARG	2.3
1	A	544	SER	2.3
1	A	456	ASP	2.2
1	A	470	SER	2.2
1	A	446	LYS	2.1
1	A	616	GLU	2.1
1	A	727	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	455	LEU	2.1
1	A	453	GLU	2.1
1	A	68	PRO	2.1
1	A	547	ASP	2.0
1	A	720	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	0.72	0.22	74,77,81,82	0
6	NRW	A	1766	17/17	0.75	0.29	38,48,57,59	17
7	PO4	A	1767	5/5	0.76	0.13	67,72,87,92	0
5	EDO	A	1761	4/4	0.86	0.18	55,60,65,66	0
8	DMS	A	1769	4/4	0.87	0.28	31,60,64,68	0
5	EDO	A	1760	4/4	0.89	0.23	47,57,57,60	0
5	EDO	A	1758	4/4	0.89	0.20	49,55,58,64	0
5	EDO	A	1759	4/4	0.90	0.19	51,52,57,59	0
5	EDO	A	1763	4/4	0.90	0.19	53,53,54,64	0
8	DMS	A	1768	4/4	0.92	0.19	39,55,56,62	0
3	CL	A	1755	1/1	0.92	0.14	65,65,65,65	0
5	EDO	A	1757	4/4	0.93	0.16	28,31,41,42	0
5	EDO	A	1764	4/4	0.95	0.15	38,42,47,51	0
5	EDO	A	1762	4/4	0.95	0.16	39,46,47,50	0
4	MN	A	1756	1/1	0.99	0.02	35,35,35,35	0
2	ZN	A	1754	1/1	0.99	0.03	35,35,35,35	0

6.5 Other polymers [i](#)

There are no such residues in this entry.