



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:30 AM UTC

PDB ID : 5O1V / pdb_00005o1v
Title : Crystal structure of WNK3 kinase domain in a monophosphorylated apo state (A-loop swapped)
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Deposited on : 2017-05-19
Resolution : 1.72 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
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)

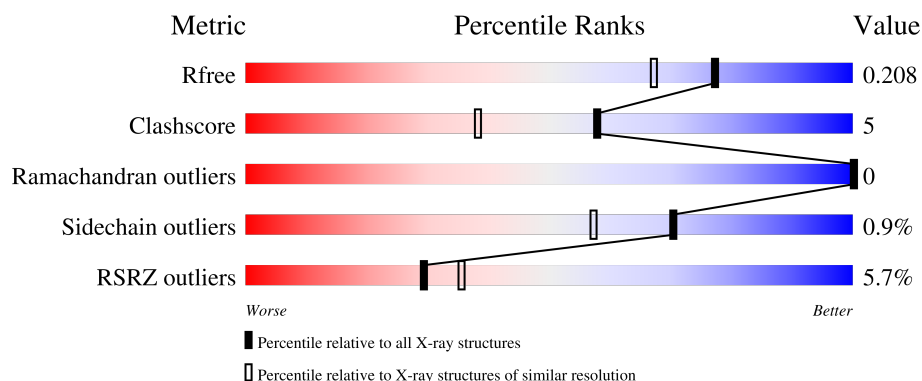
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.72 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	1039 (1.72-1.72)
Clashscore	190562	1049 (1.72-1.72)
Ramachandran outliers	187476	1041 (1.72-1.72)
Sidechain outliers	187428	1041 (1.72-1.72)
RSRZ outliers	180081	1039 (1.72-1.72)

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	285	6% 90% 8%
1	B	285	5% 84% 11% 5%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 4873 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.

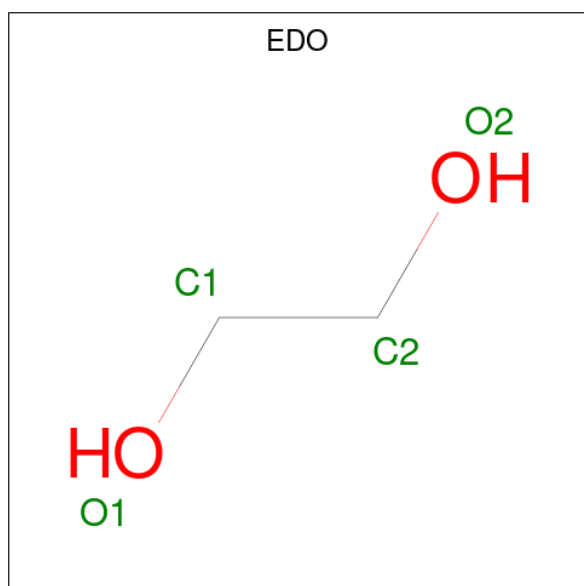
- Molecule 1 is a protein called Serine/threonine-protein kinase WNK3.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	279	Total	C	N	O	P	S	0	2	0
			2200	1401	368	412	1	18			
1	B	271	Total	C	N	O	P	S	0	2	0
			2177	1385	369	405	1	17			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	130	SER	-	expression tag	UNP Q9BYP7
A	131	MET	-	expression tag	UNP Q9BYP7
B	130	SER	-	expression tag	UNP Q9BYP7
B	131	MET	-	expression tag	UNP Q9BYP7

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



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

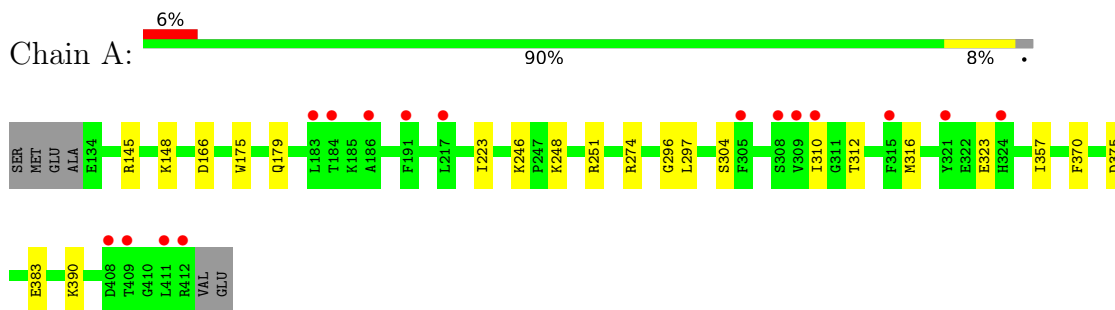
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	207	Total O 207 207	0	0
3	B	225	Total O 225 225	0	0

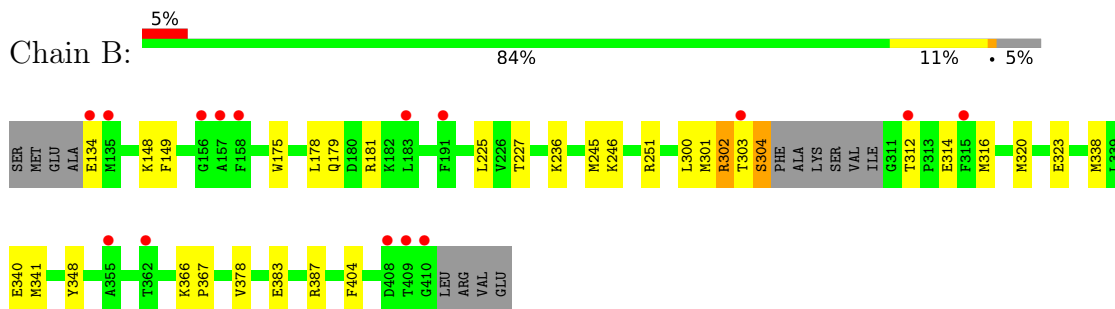
3 Residue-property plots

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: Serine/threonine-protein kinase WNK3



- Molecule 1: Serine/threonine-protein kinase WNK3



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	58.97Å 67.48Å 79.89Å 90.00° 94.56° 90.00°	Depositor
Resolution (Å)	51.49 – 1.72 51.49 – 1.72	Depositor EDS
% Data completeness (in resolution range)	85.6 (51.49-1.72) 85.6 (51.49-1.72)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.11 (at 1.72Å)	Xtriage
Refinement program	PHENIX (1.11.1 _2575: ???)	Depositor
R, R_{free}	0.173 , 0.208 0.176 , 0.208	Depositor DCC
R_{free} test set	2685 reflections (4.06%)	wwPDB-VP
Wilson B-factor (Å ²)	29.2	Xtriage
Anisotropy	0.398	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 40.4	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	4873	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.75% 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: SEP, 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	0.23	0/2234	0.43	0/3016
1	B	0.22	0/2211	0.40	0/2978
All	All	0.22	0/4445	0.42	0/5994

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	2200	0	2165	16	0
1	B	2177	0	2168	23	0
2	A	40	0	60	4	0
2	B	24	0	36	4	0
3	A	207	0	0	6	0
3	B	225	0	0	5	0
All	All	4873	0	4429	40	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 (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)
1:A:274:ARG:NH1	1:A:323:GLU:OE1	2.18	0.76
1:B:340:GLU:OE1	3:B:601:HOH:O	2.03	0.74
1:B:236:LYS:NZ	1:B:340:GLU:OE2	2.18	0.70
1:A:179:GLN:NE2	3:A:605:HOH:O	2.33	0.62
2:A:501:EDO:H21	2:A:504:EDO:H12	1.83	0.61
1:B:179:GLN:OE1	1:B:181:ARG:NH1	2.34	0.61
1:B:366:LYS:NZ	3:B:605:HOH:O	2.26	0.58
1:B:316:MET:HE2	1:B:320:MET:HB3	1.85	0.57
1:A:375:ASP:HA	2:A:510:EDO:H22	1.86	0.56
2:A:508:EDO:O1	3:A:601:HOH:O	2.18	0.56
1:A:390:LYS:NZ	3:A:606:HOH:O	2.38	0.56
1:A:248:LYS:HD3	1:A:251:ARG:HH22	1.73	0.54
1:B:303:THR:OG1	1:B:304:SEP:N	2.42	0.52
3:A:761:HOH:O	1:B:316:MET:HE1	2.11	0.49
1:A:310:ILE:HD13	1:B:302[B]:ARG:NH1	2.27	0.49
1:A:145:ARG:NH1	1:A:166:ASP:OD2	2.45	0.48
1:B:348:TYR:H	1:B:367:PRO:HB3	1.79	0.48
1:B:300:LEU:HG	1:B:301:MET:HE2	1.96	0.47
1:A:246:LYS:NZ	3:A:608:HOH:O	2.40	0.46
1:B:227:THR:HG21	2:B:505:EDO:H22	1.98	0.46
1:A:248:LYS:HG2	3:A:714:HOH:O	2.15	0.46
1:B:148:LYS:HB2	1:B:175:TRP:CD2	2.51	0.45
1:B:246:LYS:NZ	3:B:626:HOH:O	2.50	0.45
2:B:501:EDO:H22	3:B:654:HOH:O	2.16	0.44
1:B:323:GLU:O	2:B:504:EDO:H22	2.18	0.44
1:B:134:GLU:HA	1:B:149:PHE:CZ	2.52	0.44
1:B:383:GLU:OE2	1:B:387:ARG:NE	2.42	0.43
1:B:251:ARG:HD3	1:B:404:PHE:O	2.17	0.43
1:A:312:THR:O	1:A:316:MET:HG3	2.18	0.43
2:B:506:EDO:O2	3:B:602:HOH:O	2.21	0.43
1:A:148:LYS:HB2	1:A:175:TRP:CD2	2.54	0.43
1:B:338:MET:HE2	1:B:378:VAL:HG13	2.00	0.43
1:A:357:ILE:HD13	1:B:314:GLU:HG3	2.01	0.42
1:A:310:ILE:HD13	1:B:302[B]:ARG:HH11	1.85	0.42
1:A:248:LYS:HD3	1:A:251:ARG:NH2	2.35	0.42
1:A:370:PHE:CZ	1:A:383:GLU:HG3	2.55	0.41
1:B:178:LEU:HD11	1:B:225:LEU:HD11	2.02	0.41
1:B:302[B]:ARG:NH1	1:B:302[B]:ARG:HB2	2.35	0.41
1:A:296:GLY:N	2:A:503:EDO:O2	2.47	0.41
1:B:245:MET:HE3	1:B:341:MET:HB3	2.02	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	278/285 (98%)	271 (98%)	7 (2%)	0	100	100
1	B	269/285 (94%)	264 (98%)	5 (2%)	0	100	100
All	All	547/570 (96%)	535 (98%)	12 (2%)	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	234/250 (94%)	232 (99%)	2 (1%)	70	57
1	B	235/250 (94%)	232 (99%)	3 (1%)	61	43
All	All	469/500 (94%)	464 (99%)	5 (1%)	70	50

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

Mol	Chain	Res	Type
1	A	223	ILE
1	A	297	LEU
1	B	302[A]	ARG
1	B	302[B]	ARG
1	B	312	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	179	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	SEP	B	304	1	8,9,10	1.62	1 (12%)	7,12,14	1.22	1 (14%)
1	SEP	A	304	1	8,9,10	1.63	1 (12%)	7,12,14	1.49	1 (14%)

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
1	SEP	B	304	1	-	3/6/8/10	-
1	SEP	A	304	1	-	3/6/8/10	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	304	SEP	P-O1P	3.54	1.61	1.50
1	A	304	SEP	P-O1P	3.52	1.61	1.50

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	304	SEP	OG-CB-CA	3.49	111.54	108.14
1	B	304	SEP	OG-CB-CA	2.63	110.70	108.14

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	304	SEP	N-CA-CB-OG
1	A	304	SEP	C-CA-CB-OG
1	B	304	SEP	N-CA-CB-OG
1	B	304	SEP	C-CA-CB-OG
1	B	304	SEP	CB-OG-P-O2P
1	A	304	SEP	CA-CB-OG-P

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	304	SEP	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

16 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	$\# Z > 2$
2	EDO	A	506	-	3,3,3	0.51	0	2,2,2	0.32	0
2	EDO	B	506	-	3,3,3	0.45	0	2,2,2	0.35	0
2	EDO	A	501	-	3,3,3	0.43	0	2,2,2	0.37	0
2	EDO	A	510	-	3,3,3	0.44	0	2,2,2	0.42	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	EDO	A	508	-	3,3,3	0.41	0	2,2,2	0.45	0
2	EDO	B	502	-	3,3,3	0.40	0	2,2,2	0.44	0
2	EDO	B	505	-	3,3,3	0.49	0	2,2,2	0.33	0
2	EDO	A	502	-	3,3,3	0.41	0	2,2,2	0.47	0
2	EDO	A	503	-	3,3,3	0.45	0	2,2,2	0.32	0
2	EDO	A	504	-	3,3,3	0.42	0	2,2,2	0.34	0
2	EDO	B	501	-	3,3,3	0.40	0	2,2,2	0.35	0
2	EDO	A	505	-	3,3,3	0.47	0	2,2,2	0.41	0
2	EDO	A	509	-	3,3,3	0.43	0	2,2,2	0.44	0
2	EDO	B	503	-	3,3,3	0.47	0	2,2,2	0.32	0
2	EDO	B	504	-	3,3,3	0.44	0	2,2,2	0.27	0
2	EDO	A	507	-	3,3,3	0.42	0	2,2,2	0.47	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
2	EDO	A	506	-	-	0/1/1/1	-
2	EDO	B	506	-	-	0/1/1/1	-
2	EDO	A	501	-	-	0/1/1/1	-
2	EDO	A	510	-	-	0/1/1/1	-
2	EDO	A	508	-	-	0/1/1/1	-
2	EDO	B	502	-	-	0/1/1/1	-
2	EDO	B	505	-	-	0/1/1/1	-
2	EDO	A	502	-	-	1/1/1/1	-
2	EDO	A	503	-	-	0/1/1/1	-
2	EDO	A	504	-	-	0/1/1/1	-
2	EDO	B	501	-	-	1/1/1/1	-
2	EDO	A	505	-	-	0/1/1/1	-
2	EDO	A	509	-	-	0/1/1/1	-
2	EDO	B	503	-	-	0/1/1/1	-
2	EDO	B	504	-	-	0/1/1/1	-
2	EDO	A	507	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	507	EDO	O1-C1-C2-O2
2	A	502	EDO	O1-C1-C2-O2
2	B	501	EDO	O1-C1-C2-O2

There are no ring outliers.

9 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	506	EDO	1	0
2	A	501	EDO	1	0
2	A	510	EDO	1	0
2	A	508	EDO	1	0
2	B	505	EDO	1	0
2	A	503	EDO	1	0
2	A	504	EDO	1	0
2	B	501	EDO	1	0
2	B	504	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	278/285 (97%)	0.27	16 (5%) 29 35	12, 36, 78, 115	2 (0%)
1	B	270/285 (94%)	0.31	15 (5%) 30 36	12, 37, 70, 100	2 (0%)
All	All	548/570 (96%)	0.29	31 (5%) 29 35	12, 37, 75, 115	4 (0%)

All (31) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	157	ALA	3.8
1	A	305	PHE	3.7
1	A	191	PHE	3.4
1	B	315	PHE	3.4
1	B	410	GLY	3.1
1	A	309	VAL	3.0
1	A	183	LEU	3.0
1	B	312	THR	3.0
1	B	135	MET	3.0
1	A	408	ASP	2.8
1	B	355	ALA	2.7
1	A	411	LEU	2.7
1	B	409	THR	2.7
1	B	158	PHE	2.6
1	B	303	THR	2.6
1	A	412	ARG	2.5
1	A	315	PHE	2.5
1	A	324	HIS	2.4
1	A	308	SER	2.4
1	A	184	THR	2.3
1	B	134	GLU	2.3
1	B	156	GLY	2.2
1	A	186	ALA	2.2
1	A	310	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	321	TYR	2.1
1	B	362	THR	2.1
1	B	191	PHE	2.1
1	B	408	ASP	2.1
1	A	217	LEU	2.0
1	B	183	LEU	2.0
1	A	409	THR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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(Å ²)	Q<0.9
1	SEP	B	304	10/11	0.58	0.15	104,119,138,147	0
1	SEP	A	304	10/11	0.61	0.12	113,117,145,146	0

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(Å ²)	Q<0.9
2	EDO	B	503	4/4	0.73	0.18	55,59,70,72	0
2	EDO	A	510	4/4	0.79	0.12	41,55,62,68	0
2	EDO	A	506	4/4	0.79	0.16	41,47,54,58	0
2	EDO	A	508	4/4	0.81	0.13	53,59,59,70	0
2	EDO	A	505	4/4	0.82	0.15	39,50,56,61	0
2	EDO	B	506	4/4	0.83	0.17	61,62,64,81	0
2	EDO	A	509	4/4	0.84	0.15	50,53,59,63	0
2	EDO	A	507	4/4	0.85	0.16	43,51,60,68	0
2	EDO	B	505	4/4	0.87	0.14	38,39,63,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	EDO	B	504	4/4	0.87	0.11	39,53,62,75	0
2	EDO	A	502	4/4	0.89	0.15	48,64,66,66	0
2	EDO	A	504	4/4	0.91	0.13	46,52,56,56	0
2	EDO	B	502	4/4	0.92	0.16	37,55,60,63	0
2	EDO	B	501	4/4	0.93	0.09	37,41,52,60	0
2	EDO	A	503	4/4	0.94	0.09	44,51,51,54	0
2	EDO	A	501	4/4	0.95	0.10	40,43,50,52	0

6.5 Other polymers [i](#)

There are no such residues in this entry.