



Full wwPDB X-ray Structure Validation Report ⓘ

May 13, 2020 – 02:00 am BST

PDB ID : 3E84
Title : Structure-function Analysis of 2-Keto-3-deoxy-D-glycero-D-galacto-nononate-9-phosphate (KDN) Phosphatase Defines a New Clad Within the Type C0 HAD Subfamily
Authors : Lu, Z.; Wang, L.; Dunaway-Mariano, D.; Allen, K.N.
Deposited on : 2008-08-19
Resolution : 1.85 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.

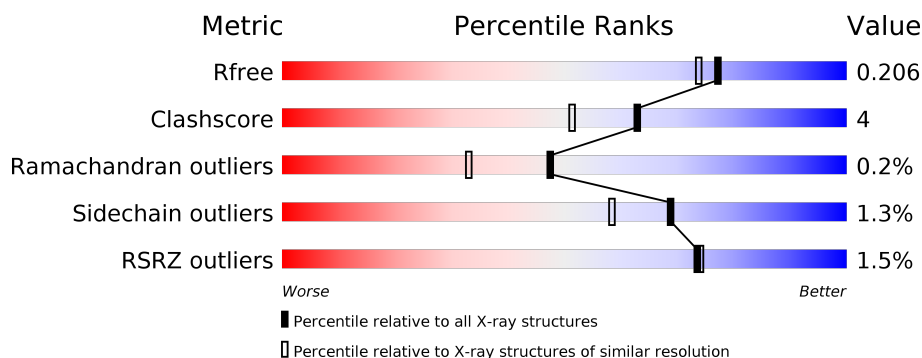
The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

i

X-RAY DIFFRACTION

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}	130704	2469 (1.86-1.86)
Clashscore	141614	2625 (1.86-1.86)
Ramachandran outliers	138981	2592 (1.86-1.86)
Sidechain outliers	138945	2592 (1.86-1.86)
RSRZ outliers	127900	2436 (1.86-1.86)

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 on 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	164	<div> <div></div> <div>89%</div> <div>11%</div> </div>
1	B	164	<div> <div></div> <div>92%</div> <div>8%</div> </div>
1	C	164	<div> <div></div> <div>93%</div> <div>7%</div> </div>
1	D	164	<div> <div>4%</div> <div>89%</div> <div>11%</div> </div>

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 5877 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.

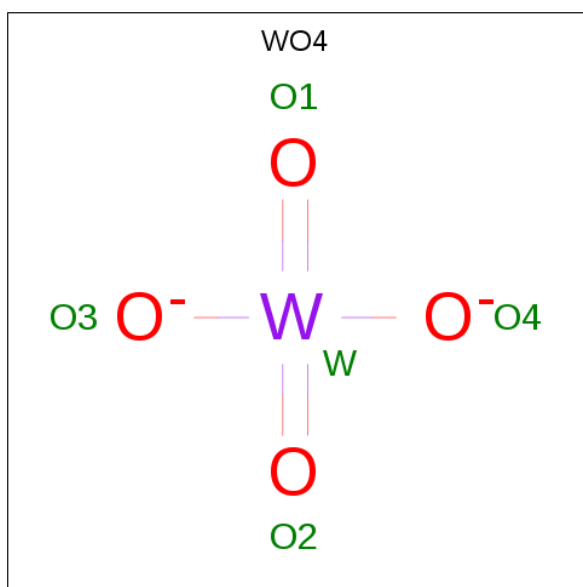
- Molecule 1 is a protein called Acylneuraminate cytidyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	164	Total	C	N	O	S	0	6	0
			1344	863	227	251	3			
1	B	164	Total	C	N	O	S	0	4	0
			1329	853	224	249	3			
1	C	164	Total	C	N	O	S	0	2	0
			1310	841	219	247	3			
1	D	164	Total	C	N	O	S	0	3	0
			1326	850	226	247	3			

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

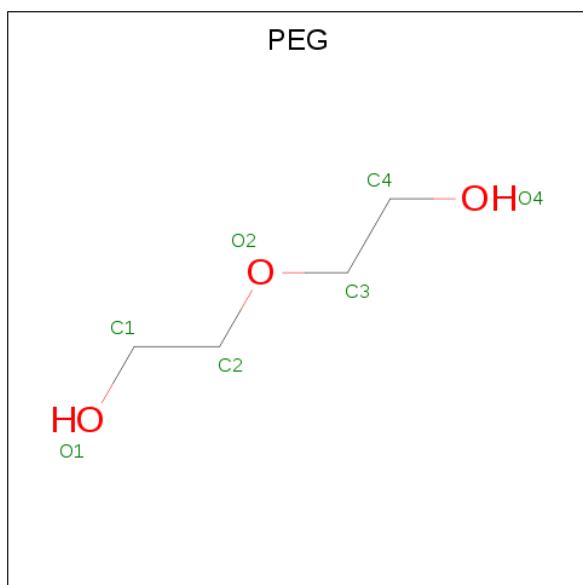
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Mg	0	0
			1	1		
2	A	1	Total	Mg	0	0
			1	1		
2	D	1	Total	Mg	0	0
			1	1		
2	C	1	Total	Mg	0	0
			1	1		

- Molecule 3 is TUNGSTATE(VI)ION (three-letter code: WO4) (formula: O₄W).



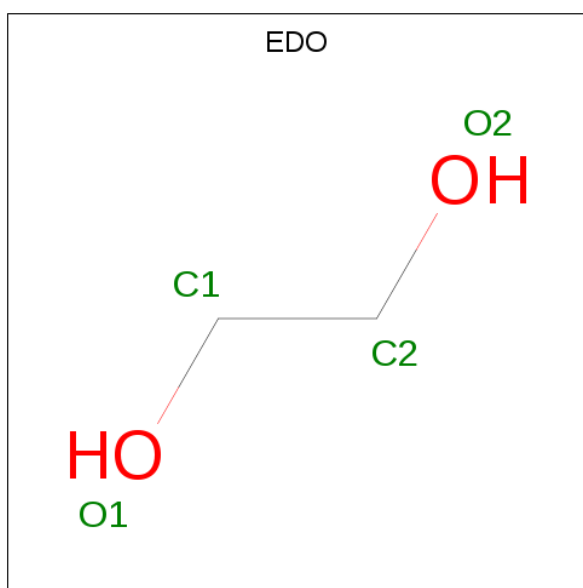
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	W	0	0
			5	4	1		
3	B	1	Total	O	W	0	0
			5	4	1		
3	C	1	Total	O	W	0	0
			5	4	1		
3	D	1	Total	O	W	0	0
			5	4	1		

- Molecule 4 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			7	4	3		
4	A	1	Total	C	O	0	0
			7	4	3		
4	B	1	Total	C	O	0	0
			7	4	3		
4	C	1	Total	C	O	0	0
			7	4	3		

- Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

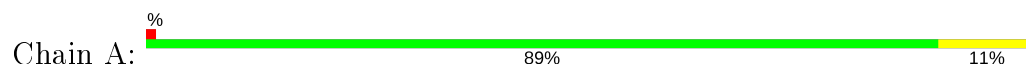
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	512	Total	O	0	0
			512	512		

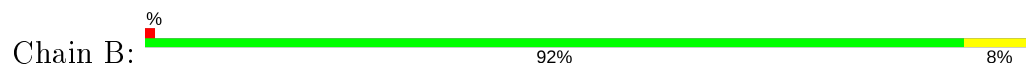
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Acylneuraminate cytidyltransferase



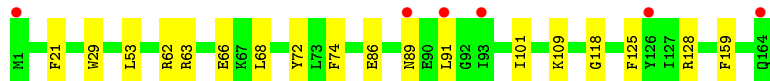
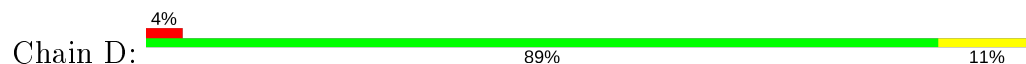
- Molecule 1: Acylneuraminate cytidyltransferase



- Molecule 1: Acylneuraminate cytidyltransferase



- Molecule 1: Acylneuraminate cytidyltransferase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	82.09 Å 107.34 Å 75.31 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	21.93 – 1.85 49.29 – 1.85	Depositor EDS
% Data completeness (in resolution range)	98.2 (21.93-1.85) 99.5 (49.29-1.85)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.98 (at 1.84 Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.176 , 0.218 0.164 , 0.206	Depositor DCC
R_{free} test set	2913 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	26.9	Xtriage
Anisotropy	0.171	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 46.5	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	0.96	EDS
Total number of atoms	5877	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.52% 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: WO4, MG, PEG, 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	0.59	0/1366	0.64	0/1838
1	B	0.58	0/1351	0.62	0/1819
1	C	0.51	0/1332	0.61	0/1793
1	D	0.46	0/1348	0.60	0/1813
All	All	0.54	0/5397	0.62	0/7263

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	1344	0	1363	20	0
1	B	1329	0	1345	14	0
1	C	1310	0	1322	9	0
1	D	1326	0	1342	12	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	5	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	5	0	0	0	0
3	C	5	0	0	0	0
3	D	5	0	0	0	0
4	A	14	0	20	2	0
4	B	7	0	10	0	0
4	C	7	0	10	0	0
5	A	4	0	6	1	0
6	B	512	0	0	7	0
All	All	5877	0	5418	46	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 (46) 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:163:ILE:O	1:A:163:ILE:HD12	1.83	0.79
1:B:63:ARG:HD2	6:B:903:HOH:O	1.85	0.75
1:A:21:PHE:HB2	1:A:29:TRP:HB2	1.72	0.70
1:B:21:PHE:HB2	1:B:29:TRP:HB2	1.72	0.70
1:B:150:LYS:HG3	6:B:1221:HOH:O	1.92	0.69
4:A:802:PEG:H42	6:B:1296:HOH:O	1.92	0.69
1:A:150[B]:LYS:HG3	6:B:1176:HOH:O	1.93	0.68
1:C:21:PHE:HB2	1:C:29:TRP:HB2	1.80	0.62
1:D:62:ARG:HH12	1:D:66:GLU:CD	2.03	0.62
6:B:956:HOH:O	1:C:113:ARG:HD3	2.00	0.61
1:D:21:PHE:HB2	1:D:29:TRP:HB2	1.83	0.61
6:B:1160:HOH:O	1:C:150:LYS:HG3	2.01	0.60
1:B:161:ALA:HA	1:B:164:GLN:NE2	2.19	0.57
1:A:56:GLU:HG2	3:A:801:WO4:O1	2.05	0.57
1:A:133:ILE:HD12	1:A:150[A]:LYS:HD3	1.88	0.55
1:A:29:TRP:NE1	1:C:29:TRP:CH2	2.72	0.54
1:C:163:ILE:O	1:D:109:LYS:HE2	2.08	0.53
1:B:122:SER:HB3	1:B:138:ARG:HB3	1.91	0.52
1:B:29:TRP:CH2	1:D:29:TRP:NE1	2.74	0.51
1:A:1:MET:HE3	1:A:150[A]:LYS:HG2	1.92	0.50
1:C:29:TRP:NE1	1:D:29:TRP:CH2	2.73	0.48
1:A:134:PHE:CE2	1:A:136:GLU:HG2	2.48	0.48
1:A:128[B]:ARG:NH2	5:A:804:EDO:O2	2.47	0.47
1:A:134:PHE:HE2	1:A:136:GLU:CG	2.28	0.47
1:A:163:ILE:O	1:A:163:ILE:CD1	2.60	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:101:ILE:HA	1:D:118:GLY:O	2.15	0.46
1:B:5:LYS:HD3	6:B:1029:HOH:O	2.16	0.46
1:A:134:PHE:CE2	1:A:136:GLU:CG	2.99	0.45
1:A:74:PHE:CE2	4:A:803:PEG:H11	2.52	0.44
1:A:26:GLY:HA2	1:B:63:ARG:CZ	2.48	0.44
1:A:134:PHE:HE2	1:A:136:GLU:HG2	1.83	0.43
1:C:101:ILE:HA	1:C:118:GLY:O	2.18	0.43
1:C:158:ASP:O	1:C:162:VAL:HG13	2.19	0.42
1:D:86:GLU:O	1:D:89:ASN:N	2.51	0.42
1:A:1:MET:CE	1:A:150[A]:LYS:HG2	2.49	0.42
1:A:29:TRP:CH2	1:B:29:TRP:NE1	2.79	0.42
1:A:29:TRP:CZ3	1:B:29:TRP:NE1	2.87	0.42
1:D:72:TYR:CE1	1:D:91:LEU:HD21	2.55	0.42
1:A:164:GLN:HE21	1:A:164:GLN:HB2	1.59	0.41
1:B:2:LYS:HD2	1:B:115:GLY:O	2.20	0.41
1:B:126:TYR:CD1	1:D:159:PHE:CD1	3.09	0.41
1:D:53:LEU:HD23	1:D:74:PHE:HB2	2.01	0.41
1:A:4:ILE:HG13	1:A:151[B]:VAL:HG13	2.01	0.41
1:B:26:GLY:HA2	1:D:63[A]:ARG:CZ	2.51	0.41
1:C:112:LYS:HD2	1:C:130:LEU:HD22	2.04	0.40
1:B:29:TRP:CZ3	1:D:29:TRP:NE1	2.89	0.40

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	168/164 (102%)	161 (96%)	6 (4%)	1 (1%)	25	12
1	B	166/164 (101%)	164 (99%)	2 (1%)	0	100	100
1	C	164/164 (100%)	159 (97%)	5 (3%)	0	100	100
1	D	165/164 (101%)	159 (96%)	6 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	663/656 (101%)	643 (97%)	19 (3%)	1 (0%)	47 33

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	2	LYS

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	142/136 (104%)	140 (99%)	2 (1%)	67 55
1	B	140/136 (103%)	140 (100%)	0	100 100
1	C	138/136 (102%)	136 (99%)	2 (1%)	67 55
1	D	139/136 (102%)	135 (97%)	4 (3%)	42 26
All	All	559/544 (103%)	551 (99%)	8 (1%)	69 55

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

Mol	Chain	Res	Type
1	A	125	PHE
1	A	162	VAL
1	C	87	LEU
1	C	112	LYS
1	D	68	LEU
1	D	125	PHE
1	D	128[A]	ARG
1	D	128[B]	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	164	GLN

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Mol	Chain	Res	Type
1	B	164	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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 13 ligands modelled in this entry, 4 are monoatomic - leaving 9 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
3	WO4	C	803	1,2	2,4,4	12.58	2 (100%)	-		
4	PEG	A	802	-	6,6,6	0.58	0	5,5,5	0.94	1 (20%)
3	WO4	B	802	1,2	2,4,4	12.70	2 (100%)	-		
4	PEG	B	803	-	6,6,6	0.56	0	5,5,5	0.85	0
4	PEG	A	803	-	6,6,6	0.67	0	5,5,5	0.89	0
3	WO4	A	801	1,2	2,4,4	12.61	2 (100%)	-		
4	PEG	C	804	-	6,6,6	0.56	0	5,5,5	0.88	0
5	EDO	A	804	-	3,3,3	0.43	0	2,2,2	0.40	0
3	WO4	D	804	1,2	2,4,4	12.85	2 (100%)	-		

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
4	PEG	C	804	-	-	2/4/4/4	-
4	PEG	A	802	-	-	3/4/4/4	-
4	PEG	B	803	-	-	2/4/4/4	-
4	PEG	A	803	-	-	1/4/4/4	-
5	EDO	A	804	-	-	1/1/1/1	-

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	801	WO4	W-O2	13.04	2.05	1.74
3	D	804	WO4	W-O1	12.99	2.05	1.74
3	B	802	WO4	W-O1	12.97	2.05	1.74
3	D	804	WO4	W-O2	12.72	2.04	1.74
3	C	803	WO4	W-O1	12.59	2.04	1.74
3	C	803	WO4	W-O2	12.58	2.04	1.74
3	B	802	WO4	W-O2	12.42	2.04	1.74
3	A	801	WO4	W-O1	12.16	2.03	1.74

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	802	PEG	C3-O2-C2	2.09	122.36	113.29

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	C	804	PEG	O2-C3-C4-O4
4	A	802	PEG	O2-C3-C4-O4
4	C	804	PEG	O1-C1-C2-O2
4	A	802	PEG	O1-C1-C2-O2
4	A	803	PEG	O2-C3-C4-O4
4	B	803	PEG	O1-C1-C2-O2
4	A	802	PEG	C4-C3-O2-C2
4	B	803	PEG	O2-C3-C4-O4
5	A	804	EDO	O1-C1-C2-O2

There are no ring outliers.

4 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	802	PEG	1	0
4	A	803	PEG	1	0
3	A	801	WO4	1	0
5	A	804	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 [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	164/164 (100%)	-0.24	2 (1%) 79 79	13, 20, 34, 84	0
1	B	164/164 (100%)	-0.20	1 (0%) 89 89	14, 20, 35, 73	0
1	C	164/164 (100%)	-0.18	1 (0%) 89 89	17, 25, 44, 79	1 (0%)
1	D	164/164 (100%)	0.07	6 (3%) 41 39	17, 29, 65, 80	0
All	All	656/656 (100%)	-0.14	10 (1%) 73 74	13, 23, 47, 84	1 (0%)

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	164	GLN	4.4
1	D	91	LEU	3.5
1	D	93	ILE	3.1
1	C	164	GLN	2.6
1	A	163	ILE	2.5
1	D	1	MET	2.4
1	B	164	GLN	2.4
1	D	164	GLN	2.3
1	D	126	TYR	2.3
1	D	89	ASN	2.2

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 carbohydrates 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
4	PEG	A	802	7/7	0.79	0.14	47,50,51,52	0
4	PEG	C	804	7/7	0.81	0.16	51,53,55,61	0
4	PEG	A	803	7/7	0.83	0.21	36,46,52,54	0
5	EDO	A	804	4/4	0.89	0.23	41,45,59,61	0
4	PEG	B	803	7/7	0.90	0.11	47,48,56,57	0
2	MG	D	704	1/1	0.98	0.06	28,28,28,28	0
2	MG	C	703	1/1	0.98	0.07	24,24,24,24	0
2	MG	B	702	1/1	0.98	0.04	21,21,21,21	0
3	WO4	A	801	5/5	0.99	0.15	30,30,30,30	0
2	MG	A	701	1/1	0.99	0.06	19,19,19,19	0
3	WO4	C	803	5/5	0.99	0.10	32,33,33,33	0
3	WO4	B	802	5/5	0.99	0.14	31,31,32,32	0
3	WO4	D	804	5/5	0.99	0.12	34,35,35,35	0

6.5 Other polymers [i](#)

There are no such residues in this entry.