



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:09 AM UTC

PDB ID : 1Q74 / pdb_00001q74
Title : The Crystal Structure of 1D-myo-inositol 2-acetamido-2-deoxy-alpha-D-glucopyranoside Deacetylase (MshB)
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Deposited on : 2003-08-15
Resolution : 1.70 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
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
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)
Validation Pipeline (wwPDB-VP)	:	2.49

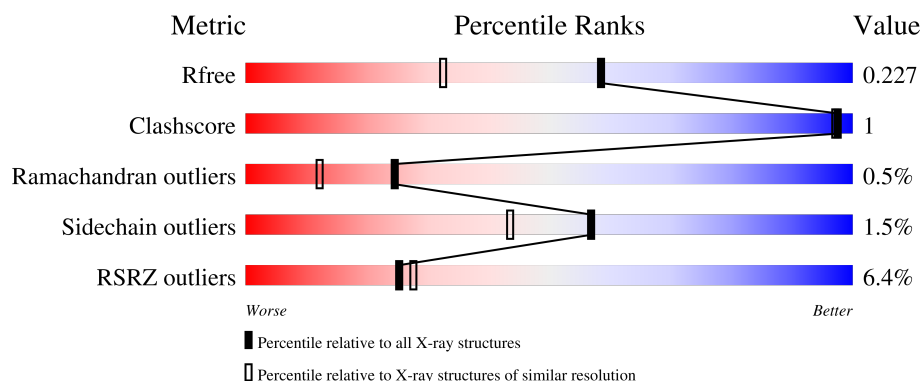
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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	5551 (1.70-1.70)
Clashscore	190562	5924 (1.70-1.70)
Ramachandran outliers	187476	5846 (1.70-1.70)
Sidechain outliers	187428	5846 (1.70-1.70)
RSRZ outliers	180081	5554 (1.70-1.70)

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	303	4% 89% 5% 5%
1	B	303	7% 86% 5% 9%
1	C	303	5% 85% 7% 8%
1	D	303	8% 89% 8%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 9152 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.

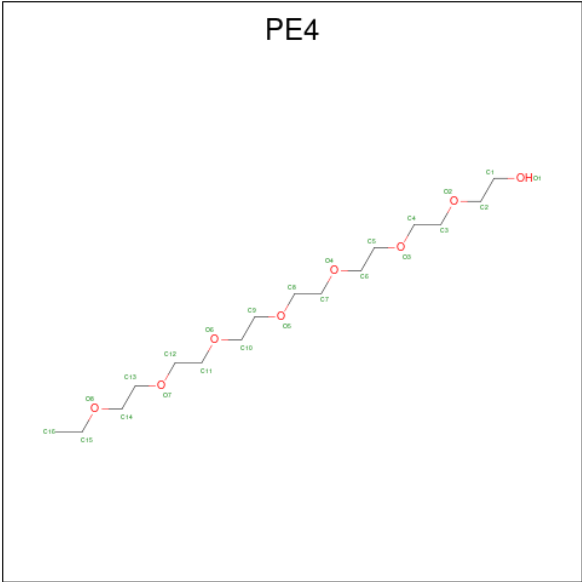
- Molecule 1 is a protein called 1D-myo-inositol 2-acetamido-2-deoxy-alpha-D-glucopyranoside Deacetylase (MshB).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	287	Total	C	N	O	S	0	0	0
			2144	1344	392	406	2			
1	B	277	Total	C	N	O	S	0	0	0
			2071	1297	379	394	1			
1	C	279	Total	C	N	O	S	0	0	0
			2086	1305	384	396	1			
1	D	278	Total	C	N	O	S	0	0	0
			2063	1287	380	394	2			

- 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		
2	B	1	Total	Zn	0	0
			1	1		
2	C	1	Total	Zn	0	0
			1	1		
2	D	1	Total	Zn	0	0
			1	1		

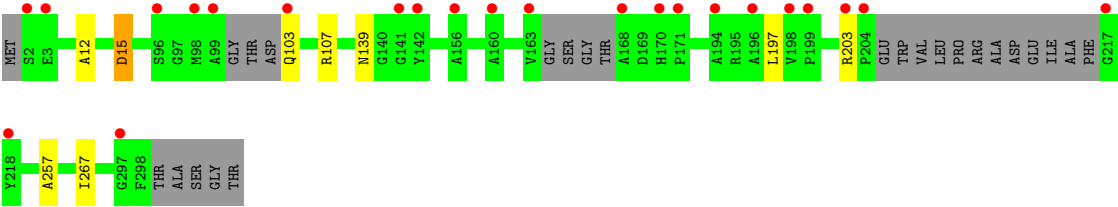
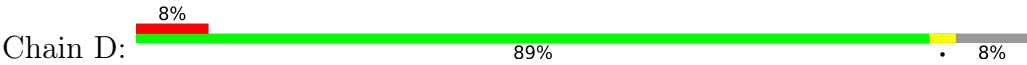
- Molecule 3 is 2-{2-[2-(2-{2-[2-(2-ETHOXY-ETHOXY)-ETHOXY]-ETHOXY}-ETHOXY)-ETHOXY]-ETHOXY}-ETHANOL (CCD ID: PE4) (formula: C₁₆H₃₄O₈).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			24	16	8		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	214	Total	O	0	0
			214	214		
4	B	211	Total	O	0	0
			211	211		
4	C	215	Total	O	0	0
			215	215		
4	D	120	Total	O	0	0
			120	120		



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	56.79Å 73.96Å 85.59Å 102.09° 108.16° 97.18°	Depositor
Resolution (Å)	19.84 – 1.70 19.84 – 1.70	Depositor EDS
% Data completeness (in resolution range)	96.3 (19.84-1.70) 96.3 (19.84-1.70)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.86 (at 1.70Å)	Xtriage
Refinement program	REFMAC 5.0	Depositor
R, R_{free}	0.194 , 0.228 0.202 , 0.227	Depositor DCC
R_{free} test set	6745 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	19.1	Xtriage
Anisotropy	0.010	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 45.1	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	9152	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.79% 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: PE4, 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	1.16	4/2194 (0.2%)	1.14	3/3000 (0.1%)
1	B	1.18	4/2119 (0.2%)	1.15	5/2896 (0.2%)
1	C	1.14	8/2134 (0.4%)	1.16	3/2917 (0.1%)
1	D	1.03	1/2108 (0.0%)	1.12	2/2879 (0.1%)
All	All	1.13	17/8555 (0.2%)	1.14	13/11692 (0.1%)

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	74	ALA	CA-CB	-7.30	1.42	1.53
1	C	129	ARG	C-O	7.21	1.27	1.23
1	A	12	ALA	CA-CB	-7.07	1.41	1.53
1	D	12	ALA	CA-CB	-6.85	1.42	1.53
1	B	12	ALA	CA-CB	-6.30	1.43	1.53
1	C	12	ALA	CA-CB	-6.12	1.43	1.53
1	C	182	TRP	N-CA	-5.93	1.38	1.46
1	C	58	ALA	CA-CB	-5.88	1.43	1.53
1	A	139	ASN	C-O	-5.80	1.16	1.24
1	C	129	ARG	CA-CB	5.55	1.56	1.52
1	B	94	ARG	NE-CZ	5.44	1.39	1.33
1	C	236	ALA	CA-CB	-5.39	1.45	1.53
1	C	25	ILE	CA-CB	-5.34	1.48	1.54
1	B	267	ILE	CA-CB	-5.22	1.47	1.53
1	C	242	ALA	CA-CB	-5.18	1.45	1.53
1	A	125	ILE	CA-CB	-5.16	1.48	1.54
1	A	76	LEU	C-O	-5.13	1.18	1.24

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	77	ARG	CB-CG-CD	6.99	127.38	111.30
1	D	203	ARG	N-CA-C	6.58	124.36	109.81
1	A	82	SER	N-CA-C	6.31	119.14	111.82
1	A	15	ASP	N-CA-CB	6.19	120.95	110.49
1	B	15	ASP	N-CA-CB	5.88	120.43	110.49
1	C	3	GLU	N-CA-C	-5.87	103.67	111.24
1	C	82	SER	N-CA-C	5.69	118.42	111.82
1	B	82	SER	N-CA-C	5.56	118.27	111.82
1	D	15	ASP	N-CA-CB	5.48	119.76	110.49
1	A	107	ARG	CG-CD-NE	-5.47	99.97	112.00
1	B	160	ALA	N-CA-C	5.39	118.07	111.82
1	C	95	ASP	N-CA-CB	-5.36	101.17	109.69
1	B	187	LEU	N-CA-C	5.19	116.62	111.07

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	2144	0	2074	5	0
1	B	2071	0	1992	2	1
1	C	2086	0	2014	5	0
1	D	2063	0	1992	1	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	24	0	34	1	0
4	A	214	0	0	1	3
4	B	211	0	0	0	3
4	C	215	0	0	2	4
4	D	120	0	0	0	3
All	All	9152	0	8106	13	7

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 1.

All (13) 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:200:ASP:OD1	4:A:1014:HOH:O	2.08	0.71
1:A:144:HIS:HD2	1:A:146:ASP:H	1.53	0.57
1:C:116:GLN:NE2	4:C:427:HOH:O	2.38	0.56
1:C:144:HIS:CD2	1:C:146:ASP:H	2.26	0.53
1:B:151:HIS:C	1:B:151:HIS:CD2	2.87	0.53
1:A:44:GLU:OE1	1:A:94:ARG:NH1	2.43	0.52
1:C:144:HIS:HD2	1:C:146:ASP:H	1.58	0.50
1:A:95:ASP:OD1	1:A:95:ASP:N	2.51	0.42
1:C:151:HIS:CD2	1:C:151:HIS:C	2.98	0.41
1:D:257:ALA:HB2	1:D:267:ILE:HD11	2.02	0.41
1:C:283:ARG:NE	4:C:482:HOH:O	2.44	0.40
1:A:70:GLY:HA3	3:A:800:PE4:O5	2.22	0.40
1:B:144:HIS:CD2	1:B:146:ASP:H	2.40	0.40

All (7) 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)
4:B:438:HOH:O	4:C:518:HOH:O[1_655]	2.00	0.20
4:A:1014:HOH:O	4:D:326:HOH:O[1_554]	2.01	0.19
4:B:334:HOH:O	4:C:481:HOH:O[1_554]	2.02	0.18
4:B:384:HOH:O	4:C:518:HOH:O[1_655]	2.02	0.18
1:B:106:GLN:OE1	4:C:518:HOH:O[1_655]	2.06	0.14
4:A:1014:HOH:O	4:D:332:HOH:O[1_554]	2.14	0.06
4:A:881:HOH:O	4:D:418:HOH:O[1_554]	2.18	0.02

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	281/303 (93%)	279 (99%)	1 (0%)	1 (0%)	30	16
1	B	269/303 (89%)	263 (98%)	4 (2%)	2 (1%)	18	7
1	C	271/303 (89%)	266 (98%)	3 (1%)	2 (1%)	18	7
1	D	270/303 (89%)	264 (98%)	5 (2%)	1 (0%)	30	16
All	All	1091/1212 (90%)	1072 (98%)	13 (1%)	6 (0%)	24	12

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	15	ASP
1	B	15	ASP
1	B	218	TYR
1	C	15	ASP
1	C	218	TYR
1	D	15	ASP

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	211/221 (96%)	209 (99%)	2 (1%)	70	62
1	B	204/221 (92%)	201 (98%)	3 (2%)	57	43
1	C	206/221 (93%)	203 (98%)	3 (2%)	57	43
1	D	203/221 (92%)	199 (98%)	4 (2%)	48	32
All	All	824/884 (93%)	812 (98%)	12 (2%)	57	43

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	163	VAL
1	A	208	LEU
1	B	77	ARG
1	B	197	LEU
1	B	202	LEU

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Mol	Chain	Res	Type
1	C	205	GLU
1	C	207	VAL
1	C	265	LEU
1	D	103	GLN
1	D	107	ARG
1	D	139	ASN
1	D	197	LEU

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	144	HIS
1	B	144	HIS
1	D	34	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 5 ligands modelled in this entry, 4 are monoatomic - leaving 1 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	PE4	A	800	-	23,23,23	0.47	0	22,22,22	0.88	1 (4%)

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
3	PE4	A	800	-	-	9/21/21/21	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	800	PE4	O6-C11-C12	-2.73	97.91	110.35

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	800	PE4	O6-C11-C12-O7
3	A	800	PE4	O7-C13-C14-O8
3	A	800	PE4	O3-C5-C6-O4
3	A	800	PE4	O6-C10-C9-O5
3	A	800	PE4	C12-C11-O6-C10
3	A	800	PE4	C1-C2-O2-C3
3	A	800	PE4	C8-C7-O4-C6
3	A	800	PE4	C14-C13-O7-C12
3	A	800	PE4	C13-C14-O8-C15

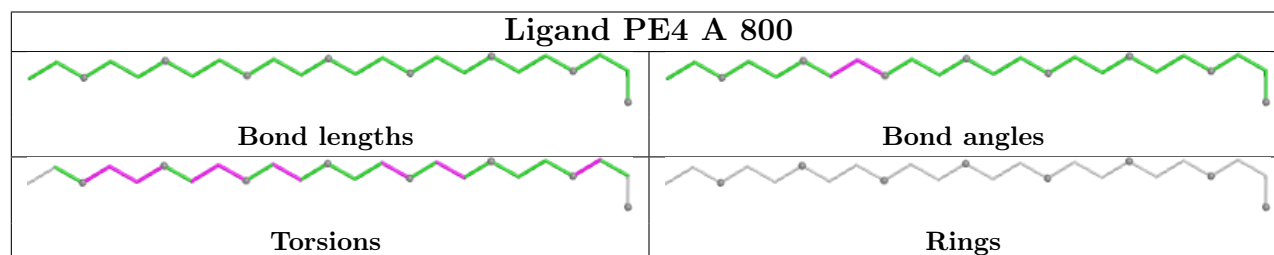
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	800	PE4	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is

within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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	287/303 (94%)	0.07	12 (4%) 40 45	11, 17, 34, 44	0
1	B	277/303 (91%)	0.29	21 (7%) 20 21	11, 18, 37, 50	0
1	C	279/303 (92%)	0.11	16 (5%) 29 32	11, 18, 36, 50	0
1	D	278/303 (91%)	0.73	23 (8%) 17 18	14, 26, 46, 60	0
All	All	1121/1212 (92%)	0.30	72 (6%) 25 27	11, 20, 40, 60	0

All (72) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	216	PHE	8.3
1	A	163	VAL	7.7
1	B	2	SER	6.7
1	B	168	ALA	6.5
1	D	163	VAL	6.5
1	D	204	PRO	6.2
1	D	142	TYR	5.7
1	A	214	ILE	5.7
1	B	218	TYR	5.7
1	C	218	TYR	5.4
1	D	218	TYR	5.1
1	B	163	VAL	5.0
1	A	216	PHE	4.9
1	C	2	SER	4.7
1	B	204	PRO	4.3
1	A	211	ALA	4.2
1	B	202	LEU	4.2
1	D	2	SER	4.2
1	B	206	TRP	4.0
1	B	142	TYR	3.8
1	D	198	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
1	D	194	ALA	3.5
1	D	168	ALA	3.5
1	A	299	THR	3.4
1	D	217	GLY	3.4
1	D	99	ALA	3.3
1	C	168	ALA	3.3
1	C	142	TYR	3.1
1	A	210	ARG	3.1
1	D	98	MET	3.0
1	C	210	ARG	3.0
1	B	217	GLY	2.9
1	D	103	GLN	2.8
1	C	217	GLY	2.8
1	C	208	LEU	2.8
1	B	203	ARG	2.7
1	B	96	SER	2.7
1	B	199	PRO	2.7
1	D	297	GLY	2.7
1	B	198	VAL	2.6
1	B	221	ASP	2.6
1	D	3	GLU	2.6
1	D	96	SER	2.6
1	C	221	ASP	2.5
1	A	141	GLY	2.5
1	A	99	ALA	2.5
1	C	96	SER	2.5
1	A	209	PRO	2.4
1	B	104	ARG	2.4
1	C	106	GLN	2.4
1	D	171	PRO	2.3
1	D	196	ALA	2.3
1	D	203	ARG	2.3
1	C	104	ARG	2.3
1	B	263	LEU	2.3
1	D	199	PRO	2.2
1	A	208	LEU	2.2
1	A	217	GLY	2.2
1	C	204	PRO	2.2
1	C	131	HIS	2.2
1	C	198	VAL	2.1
1	D	170	HIS	2.1
1	B	173	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	169	ASP	2.1
1	B	191	ILE	2.1
1	B	195	ARG	2.1
1	B	264	ALA	2.1
1	C	13	HIS	2.1
1	D	141	GLY	2.0
1	D	156	ALA	2.0
1	A	162	GLY	2.0
1	D	160	ALA	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](#)

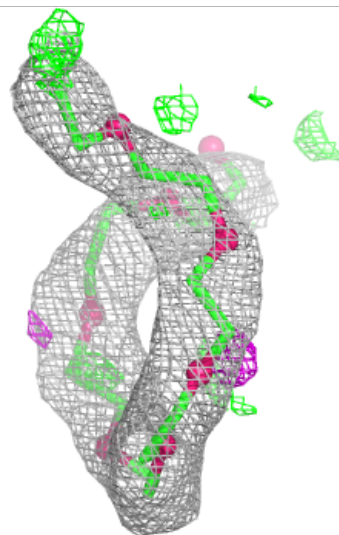
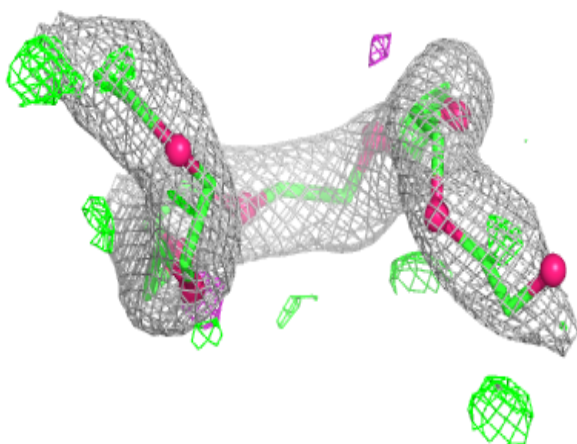
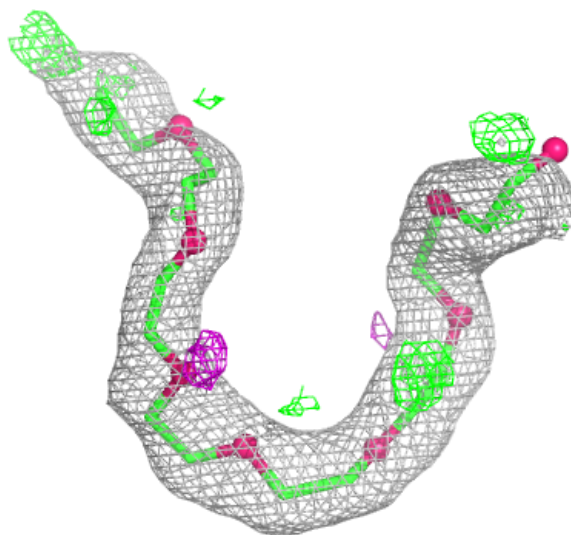
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
3	PE4	A	800	24/24	0.81	0.19	23,41,53,58	0
2	ZN	D	304	1/1	0.99	0.05	21,21,21,21	0
2	ZN	C	304	1/1	0.99	0.05	15,15,15,15	0
2	ZN	B	304	1/1	1.00	0.05	13,13,13,13	0
2	ZN	A	304	1/1	1.00	0.04	15,15,15,15	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around PE4 A 800:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.