wwPDB X-ray Structure Validation Summary Report (i)

Nov 2, 2026 – 10:22 AM EST

PDB ID	:	37LY / pdb_000037ly
Title	:	Structure of KomA in complex with pentostatin-5'-monophosphate
Authors	:	Zhou, J.; Horton, J.R.; Cheng, X.
Deposited on	:	2026-07-25
Resolution	:	2.20 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 (i) 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 (i)) were used in the production of this report:

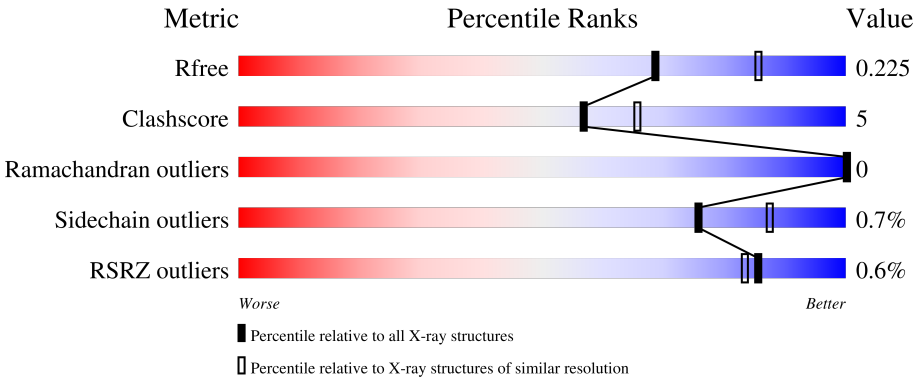
MolProbity	:	4-5-2 with Phenix2.2
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.2
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.51

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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 <=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	328	% 86% 14%
1	B	328	90% 10%

2 Entry composition (i)

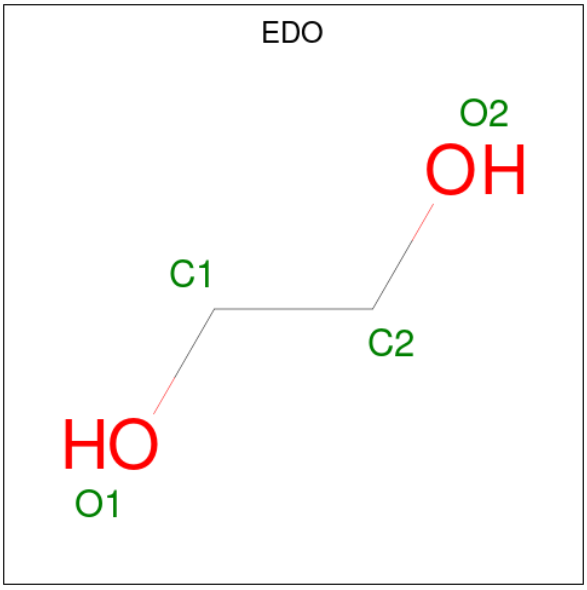
There are 6 unique types of molecules in this entry. The entry contains 5642 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 KomA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	327	Total	C	N	O	S	0	0	0
			2552	1625	432	481	14			
1	B	328	Total	C	N	O	S	0	0	0
			2562	1631	437	480	14			

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



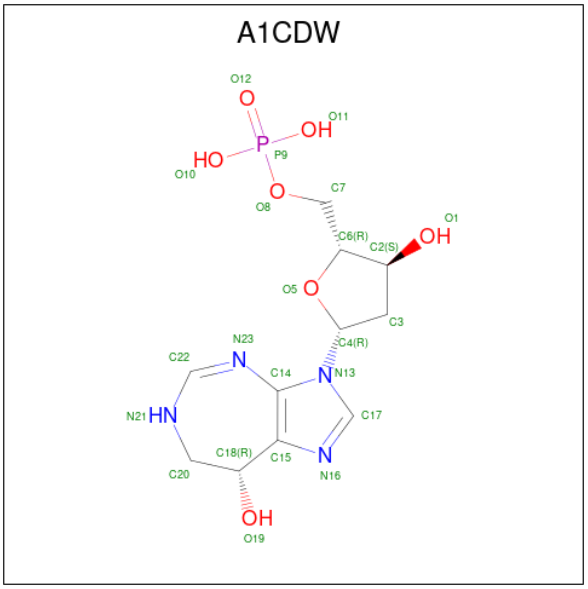
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		

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

- Molecule 3 is pentostatin 5'-phosphate (CCD ID: A1CDW) (formula: $C_{11}H_{17}N_4O_7P$) (labeled as "Ligand of Interest" by depositor).

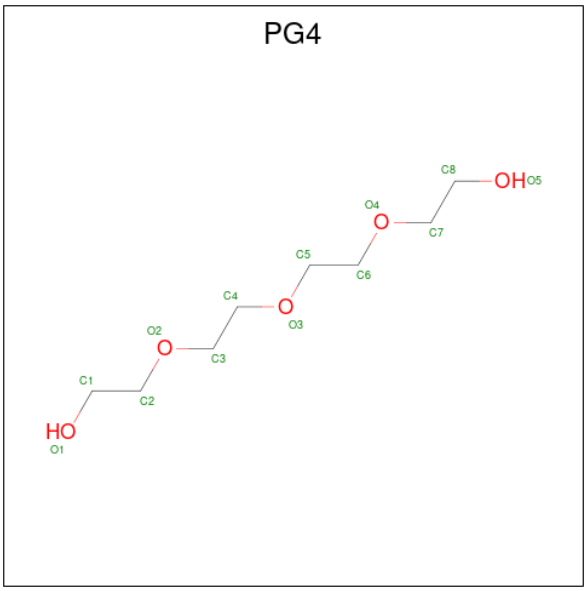


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			23	11	4	7	1		
3	B	1	Total	C	N	O	P	0	0
			23	11	4	7	1		

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Zn	0	0
			1	1		
4	B	1	Total	Zn	0	0
			1	1		

- Molecule 5 is TETRAETHYLENE GLYCOL (CCD ID: PG4) (formula: $C_8H_{18}O_5$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	B	1	Total C O 13 8 5	0	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	194	Total O 194 194	0	0
6	B	173	Total O 173 173	0	0

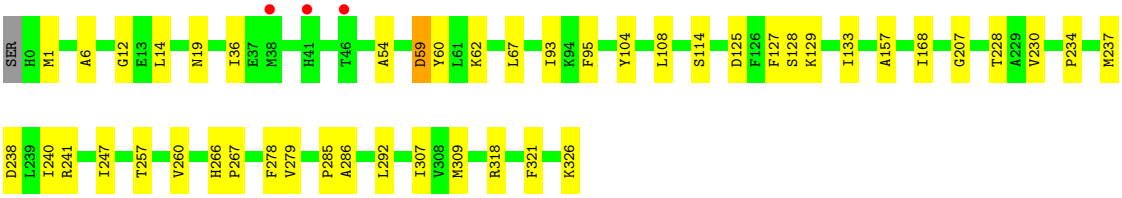
3 Residue-property plots (i)

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: KomA

Chain A:





- Molecule 1: KomA

Chain B:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	74.41Å 97.95Å 118.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.78 – 2.20 34.78 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.9 (34.78-2.20) 99.8 (34.78-2.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.56 (at 2.20Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.191 , 0.225 0.191 , 0.225	Depositor DCC
R_{free} test set	2275 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å^2)	17.7	Xtriage
Anisotropy	0.331	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 41.2	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	5642	wwPDB-VP
Average B, all atoms (Å^2)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.08% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: EDO, PG4, ZN, A1CDW

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	0.12	0/2603	0.30	0/3531
1	B	0.11	0/2613	0.29	0/3542
All	All	0.11	0/5216	0.29	0/7073

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

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	2552	0	2545	29	0
1	B	2562	0	2564	16	0
2	A	76	0	114	9	0
2	B	24	0	36	3	0
3	A	23	0	0	0	0
3	B	23	0	0	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	B	13	0	18	3	0
6	A	194	0	0	0	0
6	B	173	0	0	2	0
All	All	5642	0	5277	49	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.

The worst 5 of 49 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:59:ASP:HA	1:A:62:LYS:HD3	1.73	0.69
1:A:292:LEU:HB2	2:A:413:EDO:H12	1.74	0.68
1:A:238:ASP:OD1	1:A:241:ARG:NH2	2.30	0.65
2:A:408:EDO:HO1	2:B:404:EDO:HO2	1.43	0.64
1:B:55:ARG:HB2	1:B:59:ASP:OD2	2.01	0.60

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	325/328 (99%)	321 (99%)	4 (1%)	0	100	100
1	B	326/328 (99%)	323 (99%)	3 (1%)	0	100	100
All	All	651/656 (99%)	644 (99%)	7 (1%)	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	281/286 (98%)	280 (100%)	1 (0%)	84 92
1	B	282/286 (99%)	279 (99%)	3 (1%)	65 79
All	All	563/572 (98%)	559 (99%)	4 (1%)	76 87

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	59	ASP
1	B	31	LEU
1	B	115	GLU
1	B	262	ASP

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	41	HIS
1	A	52	HIS
1	B	52	HIS

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 30 ligands modelled in this entry, 2 are monoatomic - leaving 28 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	$\#\|Z\| > 2$
2	EDO	A	407	-	3,3,3	0.43	0	2,2,2	0.35	0
2	EDO	A	415	-	3,3,3	0.43	0	2,2,2	0.37	0
2	EDO	A	417	-	3,3,3	0.42	0	2,2,2	0.38	0
2	EDO	A	405	-	3,3,3	0.43	0	2,2,2	0.37	0
2	EDO	A	404	-	3,3,3	0.43	0	2,2,2	0.36	0
2	EDO	A	419	-	3,3,3	0.43	0	2,2,2	0.35	0
2	EDO	B	408	-	3,3,3	0.41	0	2,2,2	0.43	0
2	EDO	A	411	-	3,3,3	0.44	0	2,2,2	0.29	0
2	EDO	A	403	-	3,3,3	0.42	0	2,2,2	0.34	0
5	PG4	B	403	-	12,12,12	0.11	0	11,11,11	0.63	0
2	EDO	A	416	-	3,3,3	0.44	0	2,2,2	0.35	0
2	EDO	A	410	-	3,3,3	0.42	0	2,2,2	0.40	0
2	EDO	B	404	-	3,3,3	0.42	0	2,2,2	0.34	0
2	EDO	A	408	-	3,3,3	0.42	0	2,2,2	0.41	0
2	EDO	A	414	-	3,3,3	0.40	0	2,2,2	0.39	0
2	EDO	A	420	-	3,3,3	0.42	0	2,2,2	0.38	0
2	EDO	A	418	-	3,3,3	0.43	0	2,2,2	0.38	0
2	EDO	A	413	-	3,3,3	0.40	0	2,2,2	0.28	0
3	A1CDW	B	405	4	20,25,25	0.34	0	25,37,37	0.39	0
2	EDO	A	402	-	3,3,3	0.43	0	2,2,2	0.39	0
2	EDO	B	402	-	3,3,3	0.42	0	2,2,2	0.38	0
2	EDO	A	406	-	3,3,3	0.42	0	2,2,2	0.41	0
2	EDO	A	401	-	3,3,3	0.42	0	2,2,2	0.39	0
2	EDO	B	406	-	3,3,3	0.43	0	2,2,2	0.35	0
2	EDO	A	412	-	3,3,3	0.43	0	2,2,2	0.34	0
2	EDO	B	407	-	3,3,3	0.42	0	2,2,2	0.39	0
3	A1CDW	A	409	4	20,25,25	0.34	0	25,37,37	0.38	0
2	EDO	B	401	-	3,3,3	0.40	0	2,2,2	0.42	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	407	-	-	0/1/1/1	-
2	EDO	A	415	-	-	0/1/1/1	-
2	EDO	A	417	-	-	1/1/1/1	-
2	EDO	A	405	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	EDO	A	404	-	-	0/1/1/1	-
2	EDO	A	419	-	-	0/1/1/1	-
2	EDO	B	408	-	-	0/1/1/1	-
2	EDO	A	411	-	-	0/1/1/1	-
2	EDO	A	403	-	-	0/1/1/1	-
5	PG4	B	403	-	-	4/10/10/10	-
2	EDO	A	416	-	-	0/1/1/1	-
2	EDO	A	410	-	-	1/1/1/1	-
2	EDO	B	404	-	-	0/1/1/1	-
2	EDO	A	408	-	-	0/1/1/1	-
2	EDO	A	414	-	-	0/1/1/1	-
2	EDO	A	420	-	-	0/1/1/1	-
2	EDO	A	418	-	-	0/1/1/1	-
2	EDO	A	413	-	-	0/1/1/1	-
3	A1CDW	B	405	4	-	1/10/33/33	0/2/3/3
2	EDO	A	402	-	-	0/1/1/1	-
2	EDO	B	402	-	-	0/1/1/1	-
2	EDO	A	406	-	-	0/1/1/1	-
2	EDO	A	401	-	-	0/1/1/1	-
2	EDO	B	406	-	-	1/1/1/1	-
2	EDO	A	412	-	-	0/1/1/1	-
2	EDO	B	407	-	-	0/1/1/1	-
3	A1CDW	A	409	4	-	1/10/33/33	0/2/3/3
2	EDO	B	401	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	417	EDO	O1-C1-C2-O2
5	B	403	PG4	O3-C5-C6-O4
5	B	403	PG4	C4-C3-O2-C2
5	B	403	PG4	C8-C7-O4-C6
5	B	403	PG4	C5-C6-O4-C7

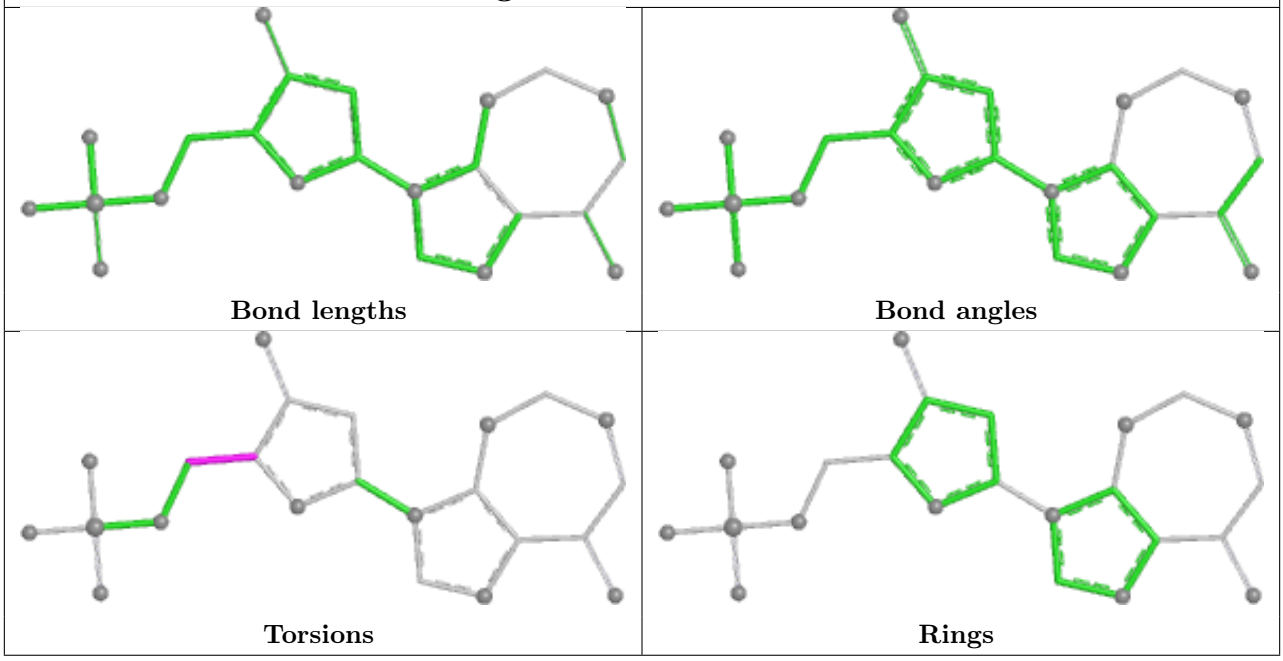
There are no ring outliers.

9 monomers are involved in 13 short contacts:

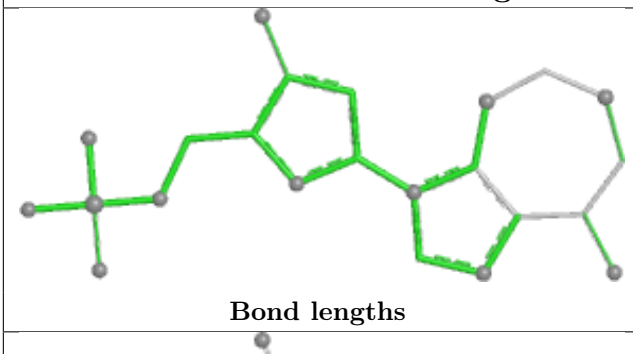
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	407	EDO	1	0
2	A	411	EDO	1	0
5	B	403	PG4	3	0
2	A	410	EDO	1	0
2	B	404	EDO	2	0
2	A	408	EDO	2	0
2	A	414	EDO	1	0
2	A	413	EDO	3	0
2	B	406	EDO	1	0

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 then 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.

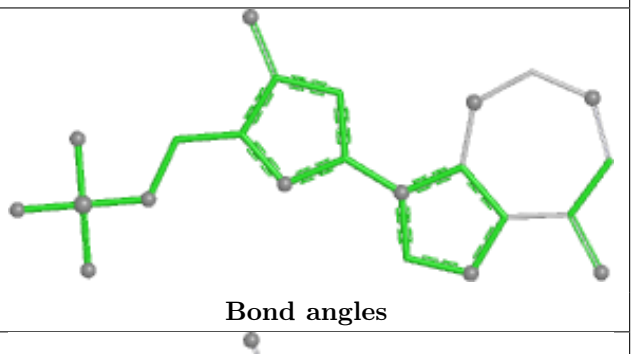
Ligand A1CDW B 405



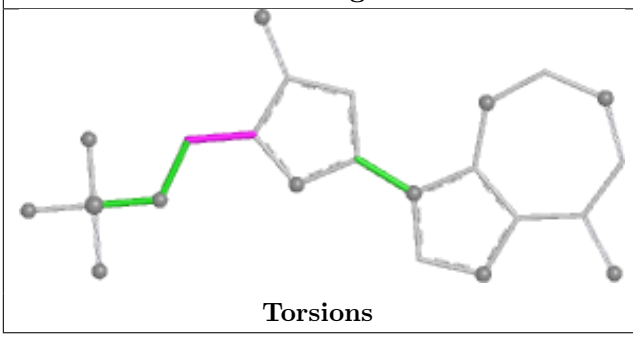
Ligand A1CDW A 409



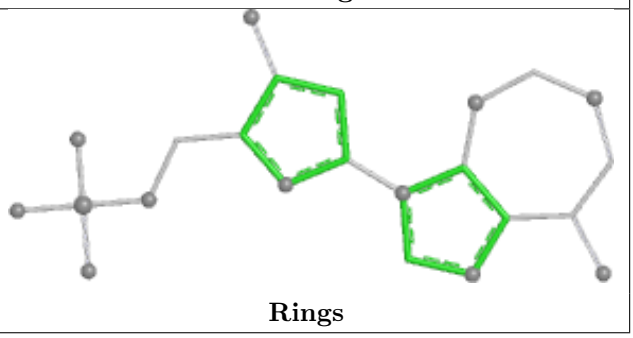
Bond lengths



Bond angles



Torsions



Rings

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, 95^{th} 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	327/328 (99%)	-0.38	3 (0%)	81	79	10, 18, 35, 54	0
1	B	328/328 (100%)	-0.21	1 (0%)	90	88	12, 21, 42, 55	0
All	All	655/656 (99%)	-0.29	4 (0%)	85	83	10, 19, 39, 55	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	0	HIS	4.0
1	A	38	MET	2.4
1	A	41	HIS	2.3
1	A	46	THR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates

There are no oligosaccharides in this entry.

6.4 Ligands

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, 95^{th} 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	408	4/4	0.75	0.22	25,36,44,46	0

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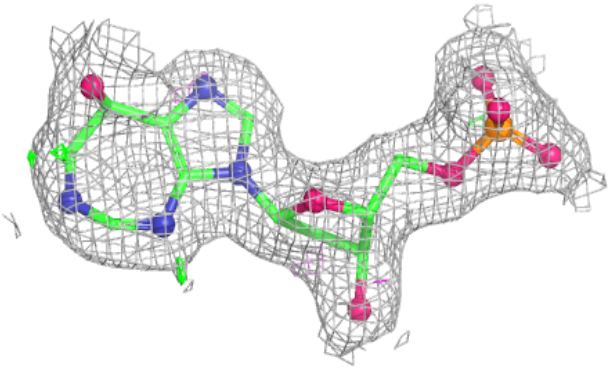
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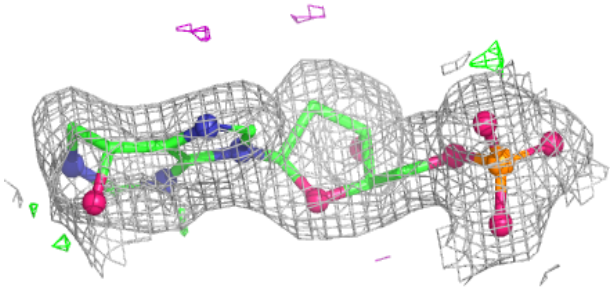
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	EDO	A	411	4/4	0.78	0.25	27,29,30,39	0
5	PG4	B	403	13/13	0.78	0.16	20,33,43,45	0
2	EDO	B	407	4/4	0.80	0.21	23,29,30,50	0
2	EDO	A	406	4/4	0.81	0.17	25,30,33,39	0
2	EDO	A	413	4/4	0.82	0.24	20,25,25,34	0
2	EDO	B	406	4/4	0.83	0.18	29,35,44,53	0
2	EDO	A	415	4/4	0.84	0.14	31,33,38,48	0
2	EDO	A	417	4/4	0.84	0.16	35,43,45,48	0
2	EDO	B	401	4/4	0.86	0.13	24,26,30,35	0
2	EDO	B	404	4/4	0.86	0.15	37,38,41,41	0
2	EDO	A	401	4/4	0.87	0.14	21,30,33,37	0
2	EDO	A	408	4/4	0.87	0.12	27,31,32,37	0
2	EDO	A	402	4/4	0.87	0.16	26,26,40,47	0
2	EDO	A	420	4/4	0.88	0.12	32,33,34,42	0
2	EDO	A	412	4/4	0.89	0.10	27,30,33,34	0
2	EDO	A	416	4/4	0.89	0.16	23,31,31,38	0
2	EDO	A	414	4/4	0.90	0.21	26,27,27,34	0
2	EDO	A	419	4/4	0.92	0.16	29,36,38,41	0
2	EDO	A	418	4/4	0.93	0.12	30,31,35,36	0
2	EDO	A	404	4/4	0.93	0.10	21,23,26,28	0
2	EDO	A	403	4/4	0.93	0.10	19,19,30,37	0
2	EDO	A	410	4/4	0.94	0.07	17,21,28,32	0
2	EDO	B	402	4/4	0.95	0.09	27,28,29,31	0
2	EDO	A	405	4/4	0.95	0.12	23,26,28,37	0
2	EDO	A	407	4/4	0.97	0.07	17,18,20,21	0
3	A1CDW	B	405	23/23	0.98	0.06	8,12,17,21	0
3	A1CDW	A	409	23/23	0.98	0.04	10,13,16,18	0
4	ZN	B	409	1/1	0.99	0.02	22,22,22,22	0
4	ZN	A	421	1/1	0.99	0.02	20,20,20,20	0

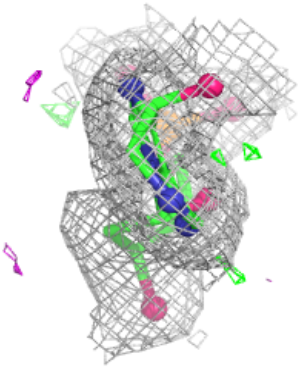
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around A1CDW B 405:

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

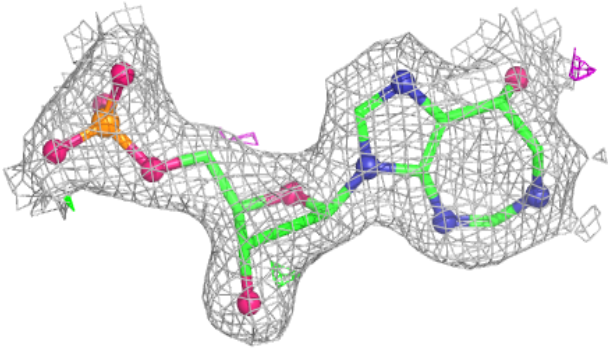


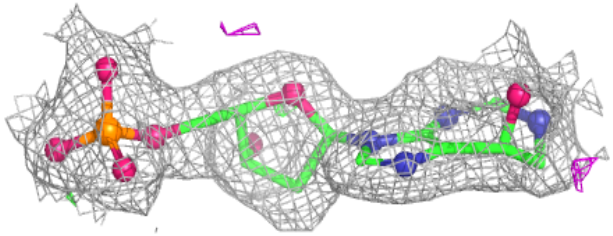


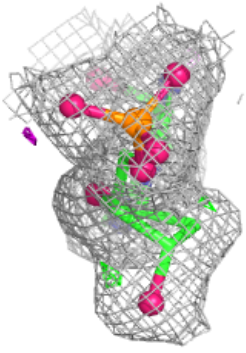


Electron density around A1CDW A 409:

$2mF_o$-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.