



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:20 PM UTC

PDB ID : 3TEL / pdb_00003tel
Title : LytR-CPS2A-Psr family protein with bound octaprenyl pyrophosphate lipid and manganese ion
Authors : Kawai, Y.; Marles-Wright, J.; Cleverley, R.M.; Emmins, R.; Ishikawa, S.; Kuwano, M.; Heinz, N.; Khai Bui, N.; Hoyland, C.N.; Ogasawara, N.; Lewis, R.J.; Vollmer, W.; Daniel, R.A.; Errington, J.
Deposited on : 2011-08-15
Resolution : 1.80 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](#) ①) 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

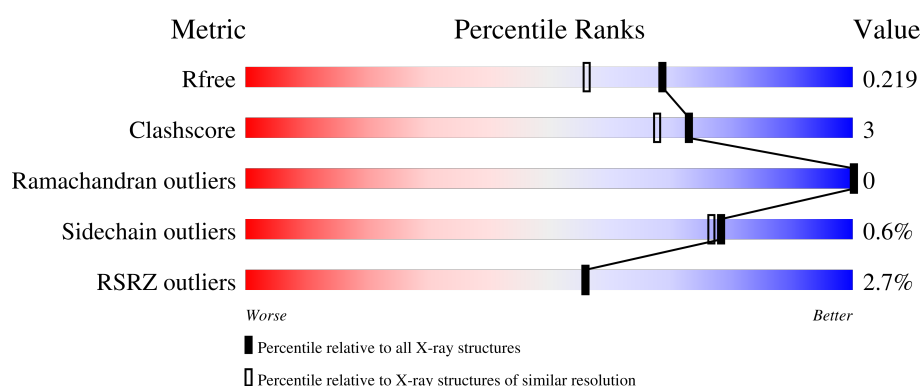
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

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	398	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3362 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.

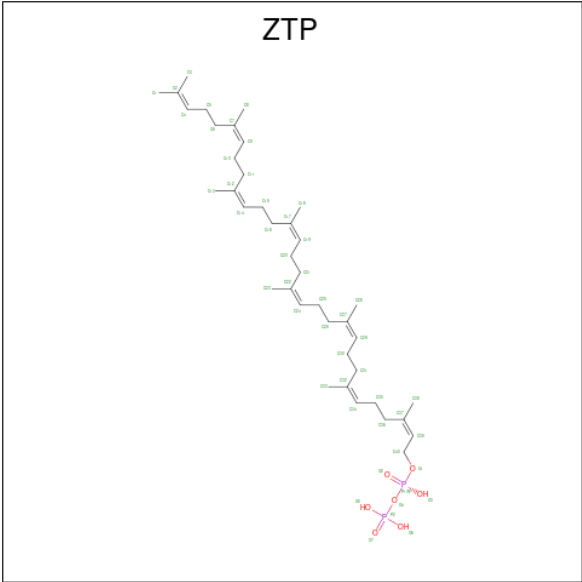
- Molecule 1 is a protein called Cps2A, Integral membrane regulatory protein Wzg.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	372	Total	C	N	O	S	56	11	0
			2930	1846	484	592	8			

There are 15 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	97	MET	-	expression tag	UNP Q4K376
A	267	ALA	ARG	engineered mutation	UNP Q4K376
A	482	LYS	-	expression tag	UNP Q4K376
A	483	LEU	-	expression tag	UNP Q4K376
A	484	ALA	-	expression tag	UNP Q4K376
A	485	ALA	-	expression tag	UNP Q4K376
A	486	ALA	-	expression tag	UNP Q4K376
A	487	LEU	-	expression tag	UNP Q4K376
A	488	GLU	-	expression tag	UNP Q4K376
A	489	HIS	-	expression tag	UNP Q4K376
A	490	HIS	-	expression tag	UNP Q4K376
A	491	HIS	-	expression tag	UNP Q4K376
A	492	HIS	-	expression tag	UNP Q4K376
A	493	HIS	-	expression tag	UNP Q4K376
A	494	HIS	-	expression tag	UNP Q4K376

- Molecule 2 is (2Z,6Z,10Z,14Z,18Z,22Z,26Z)-3,7,11,15,19,23,27,31-octamethyldotriacenta-2,6,10,14,18,22,26,30-octaen-1-yl trihydrogen diphosphate (CCD ID: ZTP) (formula: C₄₀H₆₈O₇P₂).

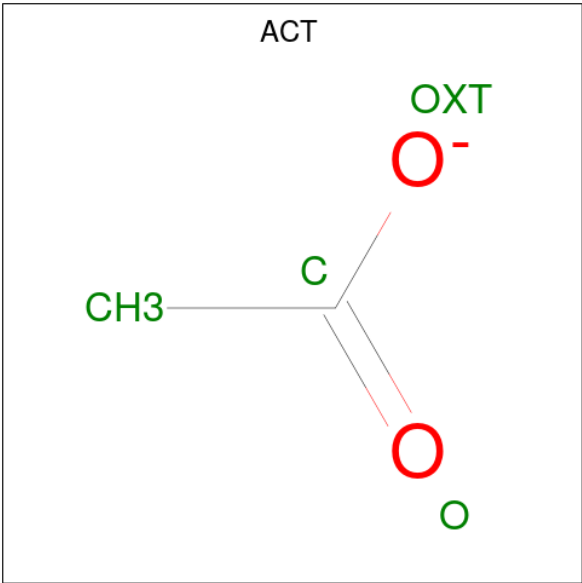


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	O	P	0	0
			49	40	7	2		

- Molecule 3 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn).

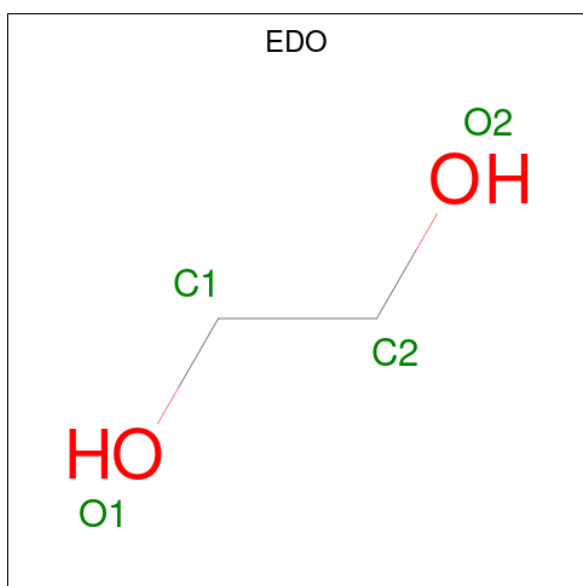
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Mn	0	0
			1	1		

- Molecule 4 is ACETATE ION (CCD ID: ACT) (formula: C₂H₃O₂).



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

- Molecule 5 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



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

- Molecule 6 is water.

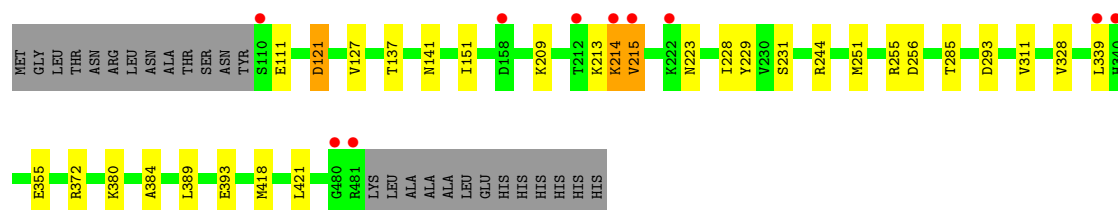
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	354	Total O 354 354	0	0

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: Cps2A, Integral membrane regulatory protein Wzg

Chain A: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	73.68Å 73.68Å 163.66Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.83 – 1.80 19.83 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.6 (19.83-1.80) 99.6 (19.83-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.92 (at 1.80Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.181 , 0.220 0.180 , 0.219	Depositor DCC
R_{free} test set	2150 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	22.7	Xtriage
Anisotropy	0.044	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 42.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3362	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.29% 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: ACT, MN, ZTP, 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	0.80	6/3009 (0.2%)	0.89	11/4082 (0.3%)

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	214	LYS	CA-CB	16.44	1.79	1.53
1	A	293	ASP	CB-CG	8.40	1.73	1.52
1	A	215	VAL	CA-CB	-8.23	1.45	1.54
1	A	372	ARG	NE-CZ	7.67	1.41	1.33
1	A	209	LYS	CD-CE	-5.80	1.35	1.52
1	A	111	GLU	CG-CD	-5.50	1.38	1.52

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	214	LYS	CB-CA-C	12.77	130.33	109.89
1	A	256	ASP	CA-CB-CG	8.75	121.35	112.60
1	A	372	ARG	CD-NE-CZ	-8.44	112.58	124.40
1	A	293	ASP	CA-CB-CG	-7.26	105.34	112.60
1	A	121	ASP	CA-CB-CG	-6.86	105.74	112.60
1	A	213	LYS	CA-CB-CG	-6.38	101.35	114.10
1	A	111	GLU	CB-CG-CD	6.32	123.34	112.60
1	A	372	ARG	NE-CZ-NH1	-6.07	115.43	121.50
1	A	372	ARG	NE-CZ-NH2	5.75	124.38	119.20
1	A	223	ASN	N-CA-C	5.46	115.33	108.45
1	A	393	GLU	CB-CG-CD	-5.01	104.08	112.60

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	2930	0	2953	19	0
2	A	49	0	65	6	0
3	A	1	0	0	0	0
4	A	16	0	12	0	0
5	A	12	0	18	0	0
6	A	354	0	0	6	0
All	All	3362	0	3048	19	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 3.

All (19) 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:251:MET:SD	2:A:1:ZTP:H18	2.28	0.71
1:A:255:ARG:HD3	6:A:671:HOH:O	1.93	0.68
1:A:421:LEU:HD13	2:A:1:ZTP:H13A	1.84	0.60
1:A:228[B]:ILE:HD11	1:A:311:VAL:HG23	1.89	0.54
1:A:418[B]:MET:HE1	2:A:1:ZTP:H3	1.91	0.53
1:A:244:ARG:HB3	1:A:285:THR:OG1	2.09	0.53
1:A:137:THR:O	1:A:141:ASN:HB2	2.09	0.51
1:A:339:LEU:HD11	6:A:556:HOH:O	2.14	0.47
1:A:389:LEU:HB3	2:A:1:ZTP:H1B	1.97	0.47
1:A:421:LEU:CD1	2:A:1:ZTP:H13A	2.44	0.47
1:A:339:LEU:CD1	6:A:556:HOH:O	2.64	0.45
1:A:328:VAL:HB	1:A:384:ALA:HB1	2.00	0.43
1:A:244:ARG:HB3	1:A:285:THR:HG1	1.82	0.43
1:A:355[B]:GLU:HG2	6:A:593:HOH:O	2.19	0.43
1:A:127[A]:VAL:HG21	1:A:151:ILE:HD13	2.01	0.42
1:A:380:LYS:NZ	6:A:601:HOH:O	2.53	0.42
1:A:389:LEU:HB3	2:A:1:ZTP:C1	2.50	0.41
1:A:121:ASP:HB2	6:A:700:HOH:O	2.21	0.41
1:A:229:TYR:CE2	1:A:231:SER:HB2	2.56	0.41

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	382/398 (96%)	375 (98%)	7 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	338/347 (97%)	336 (99%)	2 (1%)	78	77

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	214	LYS
1	A	215	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	141	ASN
1	A	143	ASN
1	A	145	GLN
1	A	162	ASN
1	A	248	ASN
1	A	332	ASN

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 9 ligands modelled in this entry, 1 is monoatomic - leaving 8 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	$\# Z > 2$
4	ACT	A	497	-	3,3,3	0.76	0	3,3,3	0.91	0
5	EDO	A	502	-	3,3,3	0.43	0	2,2,2	0.17	0
4	ACT	A	499	-	3,3,3	0.77	0	3,3,3	0.98	0
5	EDO	A	500	-	3,3,3	0.41	0	2,2,2	0.54	0
2	ZTP	A	1	3	47,48,48	2.24	20 (42%)	57,61,61	1.53	12 (21%)
4	ACT	A	498	-	3,3,3	0.80	0	3,3,3	0.75	0
5	EDO	A	501	-	3,3,3	0.46	0	2,2,2	0.30	0
4	ACT	A	496	-	3,3,3	0.81	0	3,3,3	0.60	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	502	-	-	1/1/1/1	-
5	EDO	A	501	-	-	1/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	EDO	A	500	-	-	0/1/1/1	-
2	ZTP	A	1	3	-	12/55/55/55	-

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1	ZTP	C40-C39	-4.20	1.37	1.49
2	A	1	ZTP	C35-C34	-3.97	1.38	1.50
2	A	1	ZTP	C25-C24	-3.72	1.39	1.50
2	A	1	ZTP	C30-C29	-3.62	1.39	1.50
2	A	1	ZTP	C20-C19	-3.61	1.39	1.50
2	A	1	ZTP	C5-C4	-3.53	1.39	1.50
2	A	1	ZTP	C15-C14	-3.45	1.40	1.50
2	A	1	ZTP	C29-C27	3.41	1.40	1.33
2	A	1	ZTP	C10-C9	-3.39	1.40	1.50
2	A	1	ZTP	C14-C12	3.36	1.40	1.33
2	A	1	ZTP	C9-C7	3.33	1.40	1.33
2	A	1	ZTP	C24-C22	3.31	1.40	1.33
2	A	1	ZTP	C19-C17	3.10	1.40	1.33
2	A	1	ZTP	P2-O7	3.04	1.59	1.50
2	A	1	ZTP	C34-C32	2.64	1.39	1.33
2	A	1	ZTP	C4-C2	2.48	1.39	1.32
2	A	1	ZTP	C39-C37	2.43	1.38	1.33
2	A	1	ZTP	C11-C12	2.42	1.56	1.51
2	A	1	ZTP	P1-O2	2.35	1.59	1.50
2	A	1	ZTP	P1-O4	2.24	1.61	1.59

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1	ZTP	C33-C32-C31	3.88	121.96	115.23
2	A	1	ZTP	C23-C22-C21	3.44	121.20	115.23
2	A	1	ZTP	C38-C37-C36	3.19	120.77	115.23
2	A	1	ZTP	C13-C12-C14	-3.14	115.57	123.63
2	A	1	ZTP	C33-C32-C34	-3.03	115.86	123.63
2	A	1	ZTP	C38-C37-C39	-2.69	116.71	123.63
2	A	1	ZTP	C23-C22-C24	-2.47	117.29	123.63
2	A	1	ZTP	O6-P2-O5	2.27	116.31	107.80
2	A	1	ZTP	O3-P1-O4	2.18	113.16	107.27
2	A	1	ZTP	C18-C17-C19	-2.12	118.18	123.63
2	A	1	ZTP	C28-C27-C26	2.05	118.78	115.23
2	A	1	ZTP	C11-C12-C14	2.05	125.76	121.17

There are no chirality outliers.

All (14) torsion outliers are listed below:

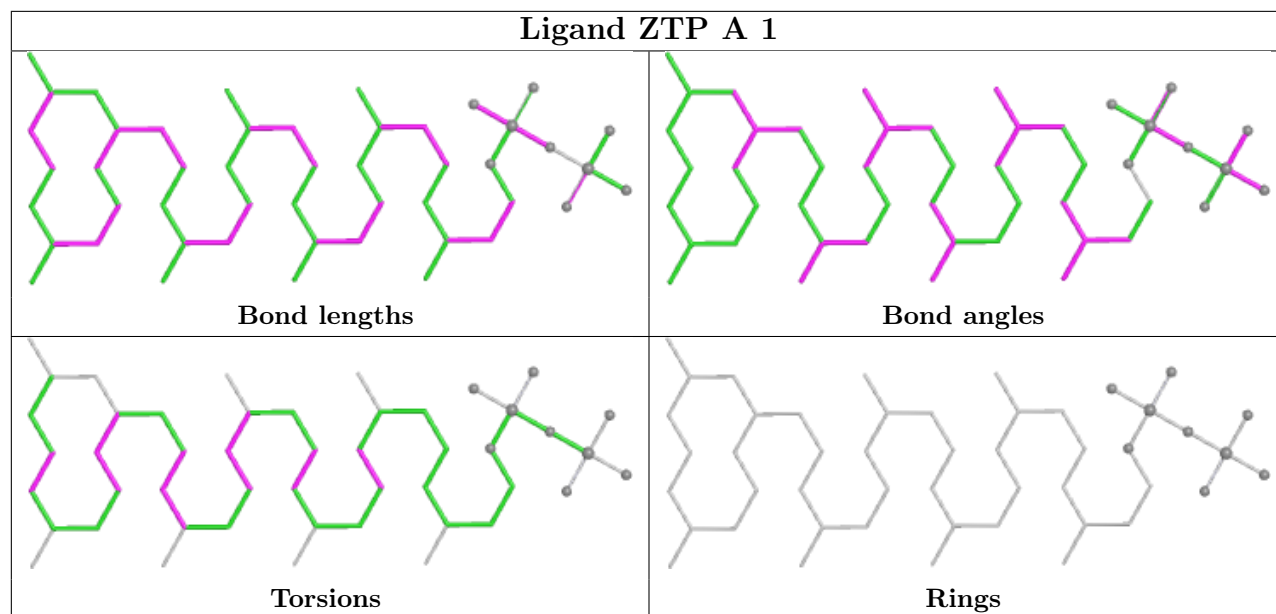
Mol	Chain	Res	Type	Atoms
2	A	1	ZTP	C20-C21-C22-C23
2	A	1	ZTP	C20-C21-C22-C24
2	A	1	ZTP	C14-C15-C16-C17
2	A	1	ZTP	C29-C30-C31-C32
2	A	1	ZTP	C19-C20-C21-C22
2	A	1	ZTP	C9-C10-C11-C12
2	A	1	ZTP	C24-C25-C26-C27
5	A	501	EDO	O1-C1-C2-O2
2	A	1	ZTP	C15-C16-C17-C18
2	A	1	ZTP	C10-C11-C12-C13
2	A	1	ZTP	C15-C16-C17-C19
2	A	1	ZTP	C10-C11-C12-C14
2	A	1	ZTP	C4-C5-C6-C7
5	A	502	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1	ZTP	6	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 [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	372/398 (93%)	-0.24	10 (2%) 56 56	9, 21, 32, 49	28 (7%)

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	215	VAL	4.6
1	A	480	GLY	4.1
1	A	158	ASP	2.9
1	A	481	ARG	2.4
1	A	212	THR	2.4
1	A	340[A]	HIS	2.4
1	A	222	LYS	2.3
1	A	110	SER	2.2
1	A	339	LEU	2.2
1	A	214	LYS	2.1

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](#)

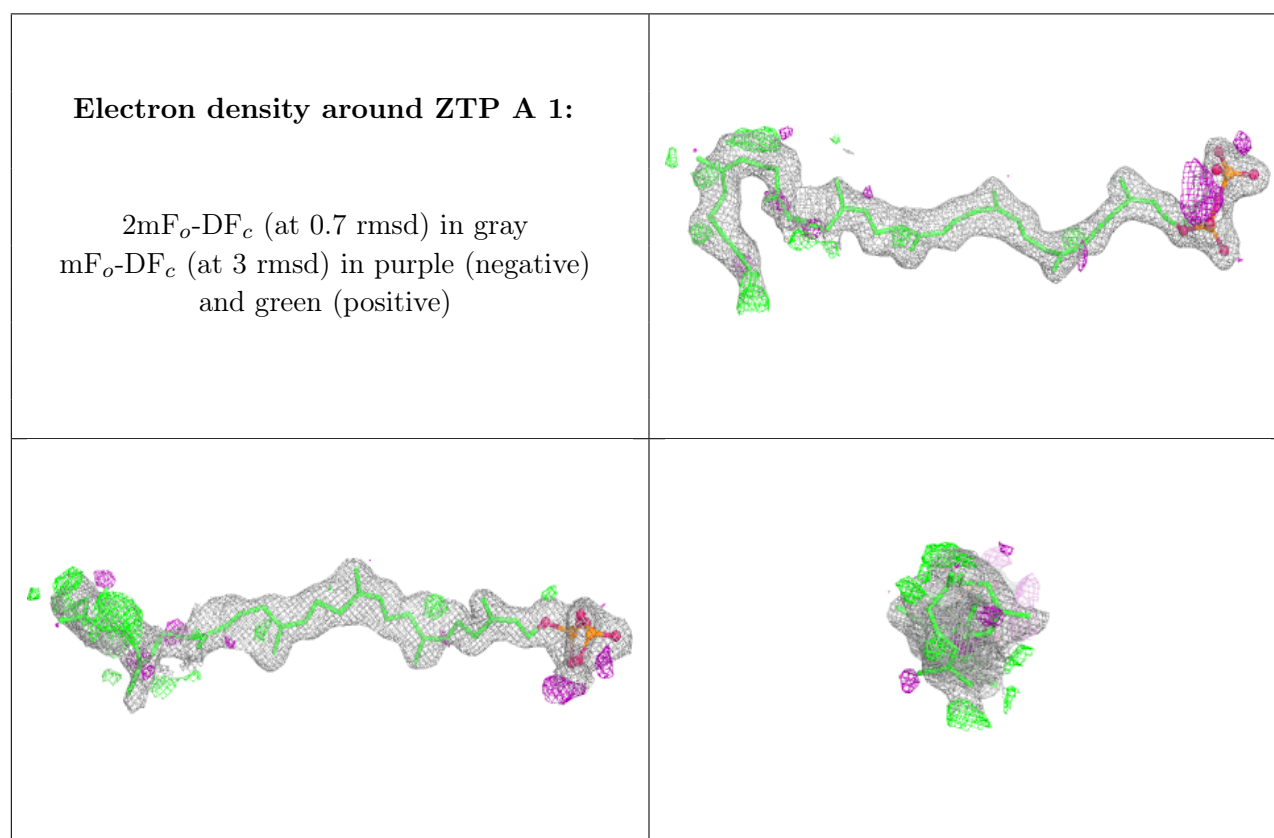
There are no oligosaccharides in this entry.

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
4	ACT	A	499	4/4	0.59	0.19	43,43,45,46	0
5	EDO	A	502	4/4	0.75	0.21	35,36,40,45	0
4	ACT	A	496	4/4	0.80	0.13	39,39,44,46	0
5	EDO	A	501	4/4	0.83	0.16	30,36,37,39	0
4	ACT	A	497	4/4	0.86	0.15	33,34,37,39	0
2	ZTP	A	1	49/49	0.87	0.12	28,34,51,53	0
4	ACT	A	498	4/4	0.91	0.15	39,40,40,44	0
5	EDO	A	500	4/4	0.92	0.10	39,39,40,40	0
3	MN	A	495	1/1	0.97	0.08	25,25,25,25	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.



6.5 Other polymers ⓘ

There are no such residues in this entry.