



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 06:06 AM UTC

PDB ID : 3W6P / pdb_00003w6p
Title : Crystal structure of human Dlp1 in complex with GDP.AIF4
Authors : Kishida, H.; Sugio, S.
Deposited on : 2013-02-17
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

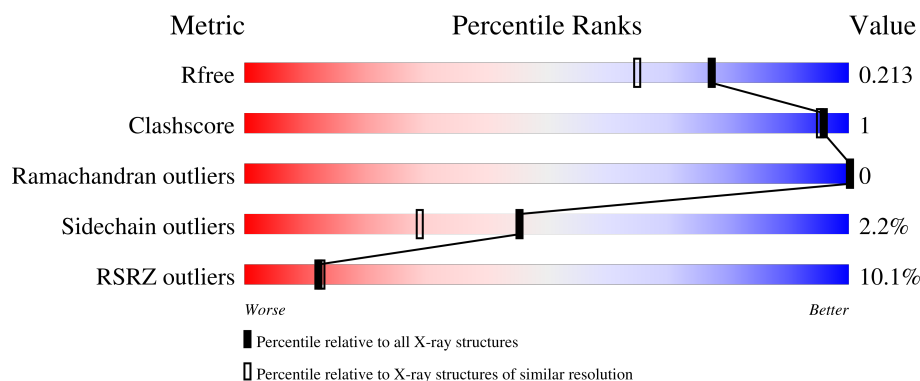
1 Overall quality at a glance

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	364	12% 86% 5% 9%
1	B	364	7% 91% • 6%

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 6090 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 Dynamin-1-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	333	Total	C	N	O	S	0	0	0
			2607	1645	466	487	9			
1	B	342	Total	C	N	O	S	0	0	0
			2682	1688	480	505	9			

There are 14 discrepancies between the modelled and reference sequences:

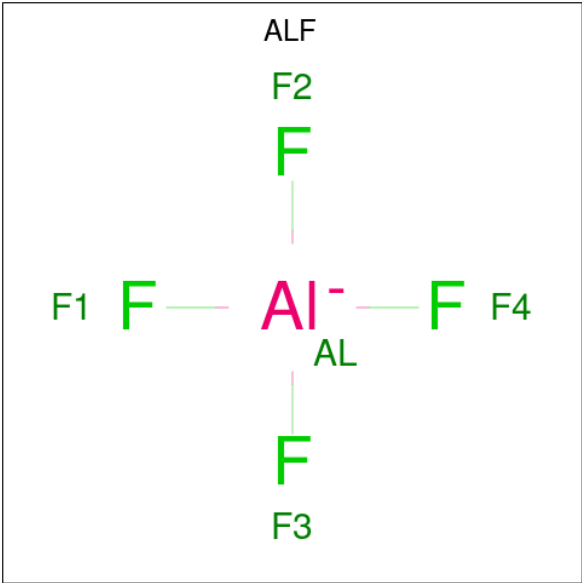
Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP O00429
A	0	PRO	-	expression tag	UNP O00429
A	330	HIS	-	linker	UNP O00429
A	331	GLY	-	linker	UNP O00429
A	332	THR	-	linker	UNP O00429
A	333	ASP	-	linker	UNP O00429
A	334	SER	-	linker	UNP O00429
B	-1	GLY	-	expression tag	UNP O00429
B	0	PRO	-	expression tag	UNP O00429
B	330	HIS	-	linker	UNP O00429
B	331	GLY	-	linker	UNP O00429
B	332	THR	-	linker	UNP O00429
B	333	ASP	-	linker	UNP O00429
B	334	SER	-	linker	UNP O00429

- Molecule 2 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	0	0
			28	10	5	11	2		
2	B	1	Total	C	N	O	P	0	0
			28	10	5	11	2		

- Molecule 3 is TETRAFLUOROALUMINATE ION (CCD ID: ALF) (formula: AlF_4^-).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	Al	F	0	0
			5	1	4		
3	B	1	Total	Al	F	0	0
			5	1	4		

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

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

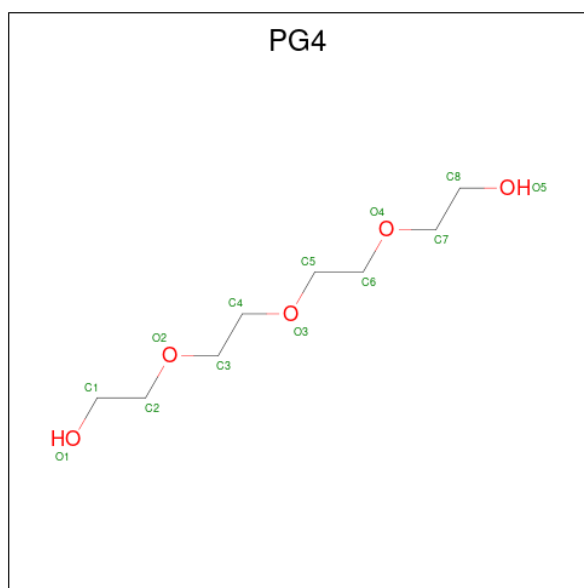
- Molecule 5 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Na	0	0
			1	1		
5	B	1	Total	Na	0	0
			1	1		

- Molecule 6 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	1	Total	Ca	0	0
			1	1		

- Molecule 7 is TETRAETHYLENE GLYCOL (CCD ID: PG4) (formula: C₈H₁₈O₅).



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

Continued on next page...

Continued from previous page...

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

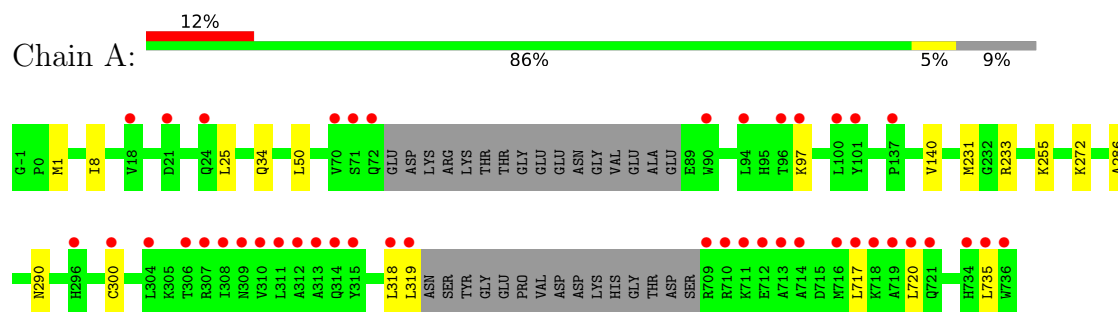
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	329	Total	O	0	0
			329	329		
8	B	375	Total	O	0	0
			375	375		

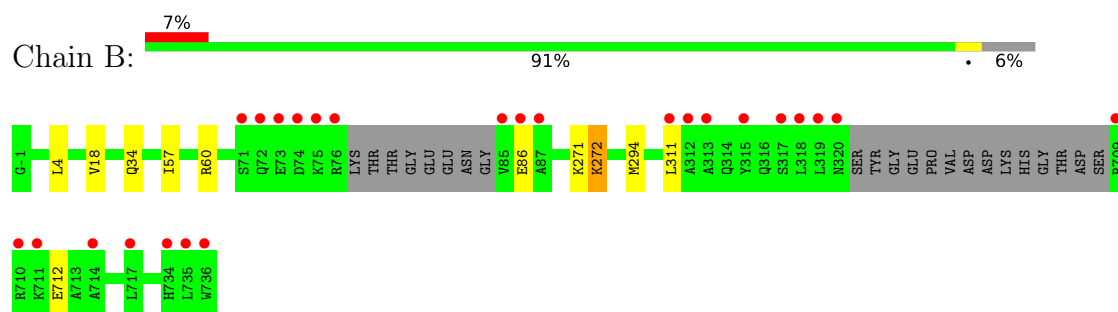
3 Residue-property plots [i](#)

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: Dynamin-1-like protein



- Molecule 1: Dynamin-1-like protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	51.41Å 109.13Å 128.73Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 1.70 30.00 – 1.70	Depositor EDS
% Data completeness (in resolution range)	98.7 (30.00-1.70) 98.7 (30.00-1.70)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.45 (at 1.70Å)	Xtriage
Refinement program	REFMAC 5.5.0110	Depositor
R, R_{free}	0.182 , 0.214 0.181 , 0.213	Depositor DCC
R_{free} test set	4006 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	12.6	Xtriage
Anisotropy	0.129	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 43.3	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	0.95	EDS
Total number of atoms	6090	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 21.39 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 7.0853e-03.*

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: PG4, NA, GDP, MG, ALF, CA

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	0.52	0/2641	0.75	0/3573
1	B	0.54	0/2716	0.75	0/3673
All	All	0.53	0/5357	0.75	0/7246

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	2607	0	2725	6	0
1	B	2682	0	2793	6	0
2	A	28	0	12	0	0
2	B	28	0	12	0	0
3	A	5	0	0	1	0
3	B	5	0	0	1	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
6	B	1	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	B	26	0	36	0	0
8	A	329	0	0	1	0
8	B	375	0	0	1	0
All	All	6090	0	5578	12	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 1.

All (12) 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:B:272:LYS:HE3	8:B:1271:HOH:O	1.81	0.81
1:B:4:LEU:HD21	1:B:294:MET:HG2	1.60	0.81
1:B:34:GLN:HG3	3:B:802:ALF:F3	2.01	0.50
1:A:255:LYS:HD3	8:A:1090:HOH:O	2.13	0.49
1:B:4:LEU:CD2	1:B:294:MET:HG2	2.39	0.46
1:A:290:ASN:HB3	1:A:735:LEU:HD23	1.98	0.46
1:B:57:ILE:HG12	1:B:60:ARG:HG2	1.98	0.46
1:A:1:MET:HG3	1:A:286:ALA:HB1	1.99	0.45
1:A:8:ILE:HG13	1:A:140:VAL:CG2	2.47	0.44
1:B:18:VAL:HG13	1:B:311:LEU:CD1	2.49	0.43
1:A:231:MET:HE3	1:A:233:ARG:HD2	2.00	0.43
1:A:34:GLN:HG3	3:A:802:ALF:F3	2.08	0.42

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	327/364 (90%)	317 (97%)	10 (3%)	0	100	100
1	B	336/364 (92%)	328 (98%)	8 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	663/728 (91%)	645 (97%)	18 (3%)	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	294/320 (92%)	285 (97%)	9 (3%)	35	18
1	B	302/320 (94%)	298 (99%)	4 (1%)	61	48
All	All	596/640 (93%)	583 (98%)	13 (2%)	45	29

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	25	LEU
1	A	50	LEU
1	A	97	LYS
1	A	272	LYS
1	A	300	CYS
1	A	318	LEU
1	A	319	LEU
1	A	717	LEU
1	A	720	LEU
1	B	86	GLU
1	B	271	LYS
1	B	272	LYS
1	B	712	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	27	GLN
1	A	66	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	109	GLN
1	A	122	ASN
1	A	165	GLN
1	A	176	ASN
1	A	296	HIS
1	B	98	ASN
1	B	109	GLN
1	B	122	ASN
1	B	165	GLN
1	B	176	ASN
1	B	721	GLN
1	B	734	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 11 ligands modelled in this entry, 5 are monoatomic - leaving 6 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	$\# Z > 2$
7	PG4	B	807	-	12,12,12	0.51	0	11,11,11	0.21	0
3	ALF	A	802	-	4,4,4	1.33	0	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	ALF	B	802	-	4,4,4	1.30	0	-		
2	GDP	A	801	4,5	29,30,30	1.17	5 (17%)	45,47,47	1.57	7 (15%)
2	GDP	B	801	4,5	29,30,30	1.10	3 (10%)	45,47,47	1.55	6 (13%)
7	PG4	B	806	-	12,12,12	0.42	0	11,11,11	0.36	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	GDP	A	801	4,5	-	2/16/32/32	0/3/3/3
7	PG4	B	807	-	-	5/10/10/10	-
7	PG4	B	806	-	-	4/10/10/10	-
2	GDP	B	801	4,5	-	2/16/32/32	0/3/3/3

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	801	GDP	C5-C4	2.99	1.47	1.38
2	B	801	GDP	C5-C4	2.91	1.46	1.38
2	A	801	GDP	C4-N9	-2.57	1.31	1.38
2	A	801	GDP	C5-N7	-2.32	1.34	1.39
2	B	801	GDP	PA-O3A	2.18	1.61	1.59
2	A	801	GDP	PA-O3A	2.18	1.61	1.59
2	B	801	GDP	C4-N9	-2.11	1.32	1.38
2	A	801	GDP	C6-N1	-2.03	1.35	1.38

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	801	GDP	C5-C4-N3	-4.34	121.49	128.39
2	A	801	GDP	C5-C4-N3	-4.29	121.55	128.39
2	B	801	GDP	C2-N3-C4	3.89	119.01	112.30
2	A	801	GDP	C2-N3-C4	3.88	118.98	112.30
2	A	801	GDP	N9-C4-N3	3.56	133.07	125.95
2	A	801	GDP	C6-C5-N7	3.53	136.71	130.29
2	B	801	GDP	N9-C4-N3	3.46	132.86	125.95
2	B	801	GDP	C6-C5-N7	3.26	136.22	130.29
2	B	801	GDP	O2B-PB-O3A	2.54	113.17	104.64
2	A	801	GDP	O2B-PB-O3A	2.42	112.76	104.64

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	801	GDP	O6-C6-C5	-2.29	120.48	126.53
2	A	801	GDP	C4-C5-N7	-2.06	107.41	110.67
2	A	801	GDP	C8-N9-C4	2.02	109.82	106.03

There are no chirality outliers.

All (13) torsion outliers are listed below:

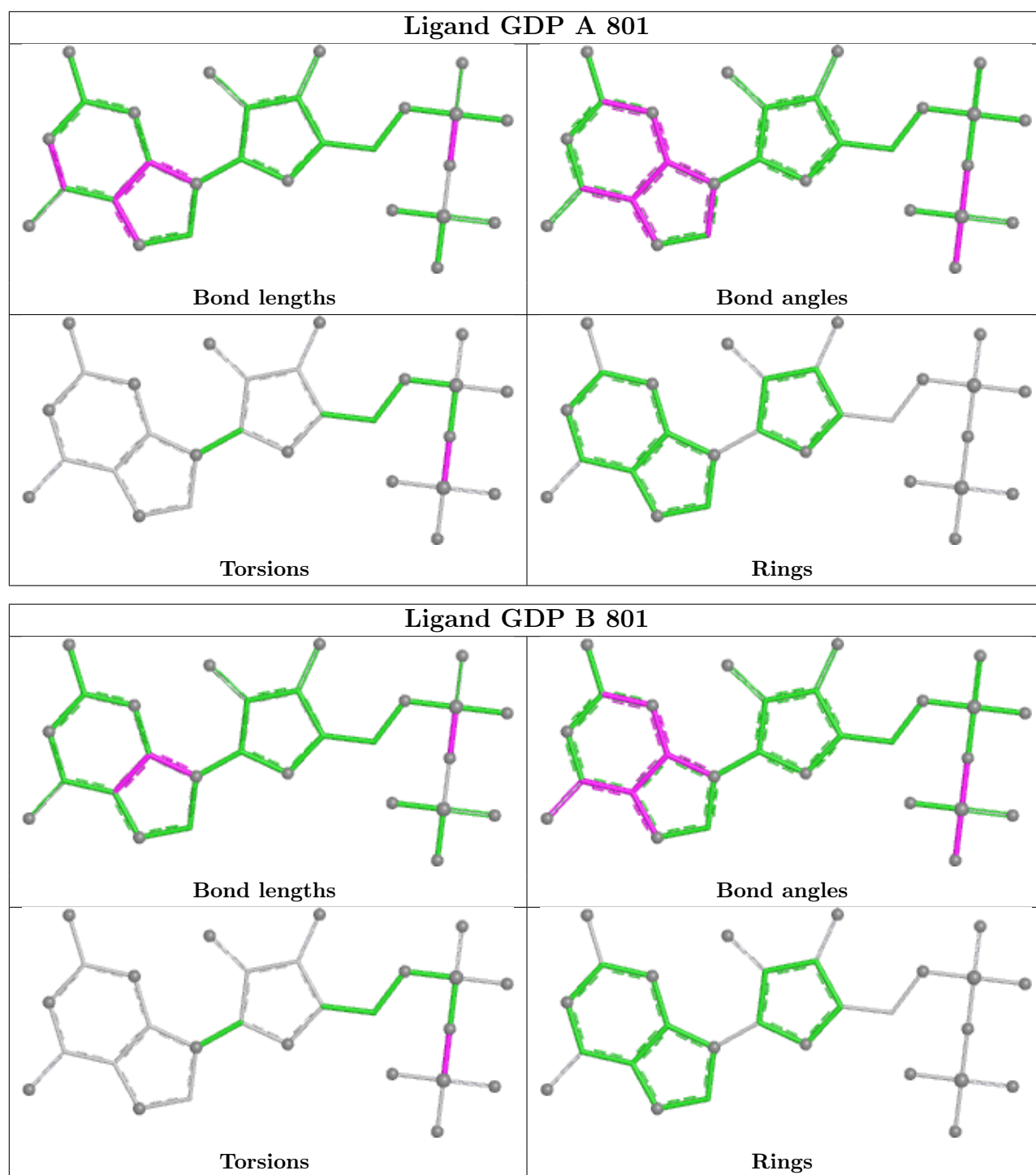
Mol	Chain	Res	Type	Atoms
2	A	801	GDP	PA-O3A-PB-O2B
2	B	801	GDP	PA-O3A-PB-O2B
7	B	807	PG4	O2-C3-C4-O3
7	B	806	PG4	O3-C5-C6-O4
2	A	801	GDP	PA-O3A-PB-O1B
7	B	807	PG4	O3-C5-C6-O4
7	B	806	PG4	O2-C3-C4-O3
7	B	806	PG4	C4-C3-O2-C2
7	B	807	PG4	C3-C4-O3-C5
2	B	801	GDP	PA-O3A-PB-O1B
7	B	807	PG4	C5-C6-O4-C7
7	B	807	PG4	O1-C1-C2-O2
7	B	806	PG4	O4-C7-C8-O5

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	802	ALF	1	0
3	B	802	ALF	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	333/364 (91%)	0.32	43 (12%) 7 7	5, 15, 52, 67	0
1	B	342/364 (93%)	0.03	25 (7%) 21 23	4, 12, 38, 53	0
All	All	675/728 (92%)	0.17	68 (10%) 12 13	4, 13, 43, 67	0

All (68) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	85	VAL	8.3
1	A	736	TRP	7.1
1	B	736	TRP	6.0
1	B	87	ALA	5.4
1	A	318	LEU	5.2
1	A	319	LEU	5.0
1	A	719	ALA	4.7
1	B	320	ASN	4.5
1	A	310	VAL	4.4
1	B	319	LEU	4.0
1	B	75	LYS	3.9
1	B	86	GLU	3.8
1	A	714	ALA	3.7
1	B	318	LEU	3.6
1	A	308	ILE	3.4
1	A	304	LEU	3.4
1	A	306	THR	3.4
1	A	315	TYR	3.3
1	A	100	LEU	3.3
1	A	709	ARG	3.3
1	A	71	SER	3.2
1	A	96	THR	3.2
1	B	313	ALA	3.2
1	A	312	ALA	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	718	LYS	3.0
1	B	71	SER	3.0
1	A	94	LEU	3.0
1	A	720	LEU	3.0
1	A	713	ALA	2.9
1	A	716	MET	2.9
1	A	717	LEU	2.9
1	B	315	TYR	2.8
1	A	311	LEU	2.8
1	A	18	VAL	2.8
1	B	710	ARG	2.8
1	A	313	ALA	2.8
1	A	70	VAL	2.8
1	A	710	ARG	2.8
1	B	76	ARG	2.8
1	A	307	ARG	2.7
1	A	735	LEU	2.7
1	B	73	GLU	2.7
1	A	24	GLN	2.7
1	B	709	ARG	2.6
1	A	296	HIS	2.6
1	B	312	ALA	2.6
1	B	714	ALA	2.5
1	B	734	HIS	2.5
1	A	72	GLN	2.4
1	B	311	LEU	2.4
1	B	735	LEU	2.4
1	A	721	GLN	2.3
1	B	717	LEU	2.3
1	B	317	SER	2.3
1	A	97	LYS	2.2
1	B	74	ASP	2.2
1	A	712	GLU	2.2
1	B	72	GLN	2.1
1	A	734	HIS	2.1
1	A	309	ASN	2.1
1	A	314	GLN	2.1
1	A	137	PRO	2.1
1	A	90	TRP	2.1
1	B	711	LYS	2.1
1	A	101	TYR	2.1
1	A	21	ASP	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	300	CYS	2.0
1	A	711	LYS	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](#)

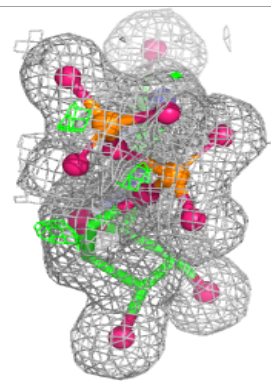
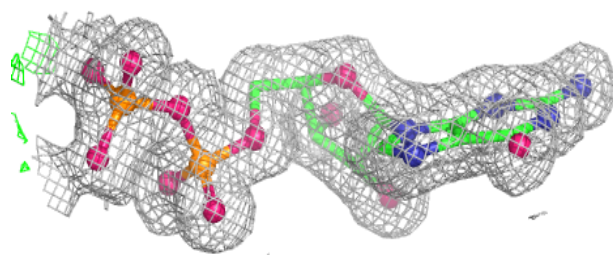
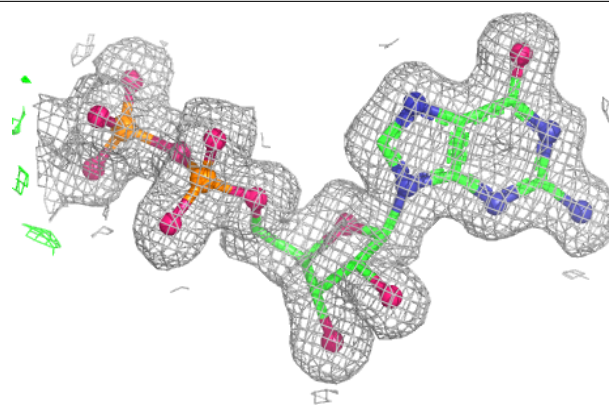
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
7	PG4	B	807	13/13	0.77	0.15	30,31,32,32	0
7	PG4	B	806	13/13	0.85	0.14	21,25,29,32	0
3	ALF	B	802	5/5	0.96	0.06	9,10,13,16	0
3	ALF	A	802	5/5	0.97	0.05	8,9,11,14	0
5	NA	B	804	1/1	0.97	0.06	10,10,10,10	0
4	MG	B	803	1/1	0.99	0.05	2,2,2,2	0
5	NA	A	804	1/1	0.99	0.04	7,7,7,7	0
2	GDP	A	801	28/28	0.99	0.03	3,5,7,7	0
6	CA	B	805	1/1	0.99	0.07	17,17,17,17	0
2	GDP	B	801	28/28	0.99	0.03	4,5,6,7	0
4	MG	A	803	1/1	0.99	0.04	3,3,3,3	0

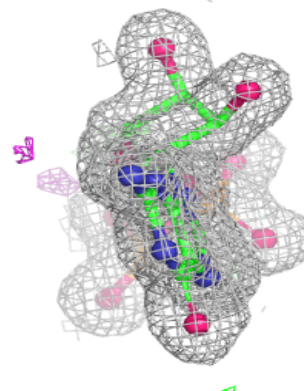
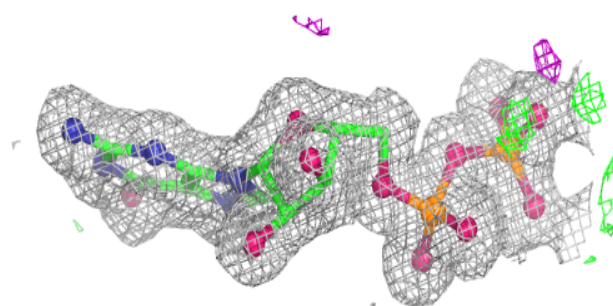
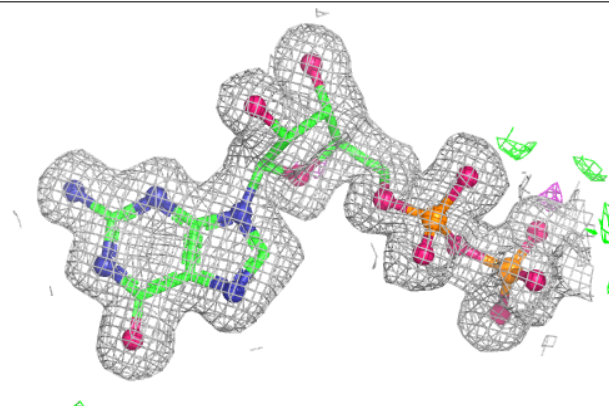
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around GDP A 801:

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

**Electron density around GDP B 801:**

$2mF_o-DF_c$ (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.