



wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 12, 2024 – 08:38 am BST

PDB ID : 5EE5
Title : Structure of human ARL1 in complex with the DCB domain of BIG1
Authors : Galindo, A.; Soler, N.; Munro, S.
Deposited on : 2015-10-22
Resolution : 2.28 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 ⓘ 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	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

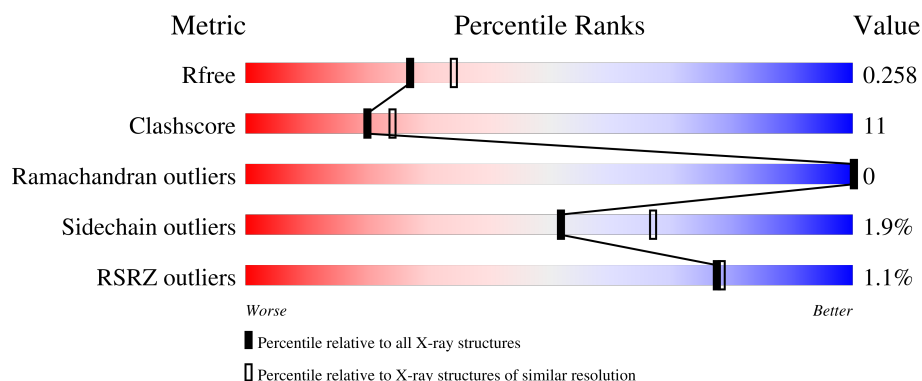
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.28 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}	164625	8487 (2.30-2.26)
Clashscore	180529	9437 (2.30-2.26)
Ramachandran outliers	177936	9341 (2.30-2.26)
Sidechain outliers	177891	9342 (2.30-2.26)
RSRZ outliers	164620	8487 (2.30-2.26)

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	213	<div> <div></div> <div>69%</div> <div>25%</div> <div>• 5%</div> </div>
2	B	171	<div> <div></div> <div>81%</div> <div>15%</div> <div>•</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	CL	A	312	-	-	X	-

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 3009 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 Brefeldin A-inhibited guanine nucleotide-exchange protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	202	Total	C	N	O	S	0	0	0
			1595	1003	280	301	11			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP Q9Y6D6
A	-1	SER	-	expression tag	UNP Q9Y6D6
A	0	HIS	-	expression tag	UNP Q9Y6D6
A	?	-	SER	deletion	UNP Q9Y6D6
A	?	-	PRO	deletion	UNP Q9Y6D6
A	?	-	PRO	deletion	UNP Q9Y6D6
A	?	-	HIS	deletion	UNP Q9Y6D6
A	?	-	GLY	deletion	UNP Q9Y6D6
A	?	-	GLU	deletion	UNP Q9Y6D6
A	?	-	ALA	deletion	UNP Q9Y6D6
A	?	-	LYS	deletion	UNP Q9Y6D6
A	?	-	ALA	deletion	UNP Q9Y6D6
A	?	-	GLY	deletion	UNP Q9Y6D6
A	?	-	SER	deletion	UNP Q9Y6D6
A	?	-	SER	deletion	UNP Q9Y6D6
A	?	-	THR	deletion	UNP Q9Y6D6
A	?	-	LEU	deletion	UNP Q9Y6D6
A	?	-	PRO	deletion	UNP Q9Y6D6
A	?	-	PRO	deletion	UNP Q9Y6D6
A	?	-	VAL	deletion	UNP Q9Y6D6
A	?	-	LYS	deletion	UNP Q9Y6D6
A	?	-	SER	deletion	UNP Q9Y6D6

- Molecule 2 is a protein called ADP-ribosylation factor-like protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	164	Total	C	N	O	S	0	0	0
			1300	828	216	248	8			

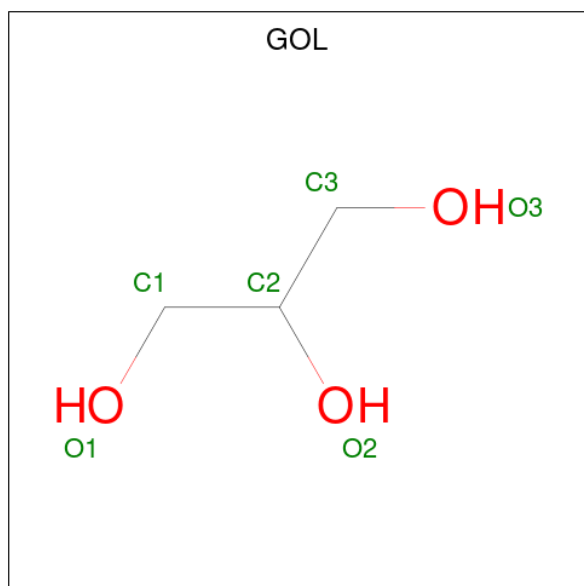
There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	11	GLY	-	expression tag	UNP P40616
B	12	SER	-	expression tag	UNP P40616
B	13	HIS	-	expression tag	UNP P40616
B	14	MET	-	expression tag	UNP P40616
B	71	LEU	GLN	conflict	UNP P40616

- Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	6	Total	Na	0	0
			6	6		
3	B	8	Total	Na	0	0
			8	8		

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			6	3	3		
4	B	1	Total	C	O	0	0
			6	3	3		

- | Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|-----------------|---------|---------|
| 5 | A | 6 | Total Cl
6 6 | 0 | 0 |
| 5 | B | 1 | Total Cl
1 1 | 0 | 0 |

-
- The image displays the chemical structure of Guanosine Triphosphate (GTP). It consists of a guanine base (a purine ring system with an amino group at C2) linked to a ribose sugar (a five-membered ring with hydroxyl groups at C2' and C3'). The ribose is further linked to a chain of three phosphate groups (O3A, O3B, O3C) via phosphodiester bonds. The structure is color-coded: the guanine base is blue, the ribose sugar is green, and the phosphate groups are red. The labels O1 through O15 indicate specific oxygen atoms in the structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
6	B	1	Total 32	C 10	N 5	O 14	P 3	0	0

- | Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|-----------------|---------|---------|
| 7 | B | 4 | Total Mg
4 4 | 0 | 0 |

- WORLDWIDE
PDB
PROTEIN DATA BANK



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

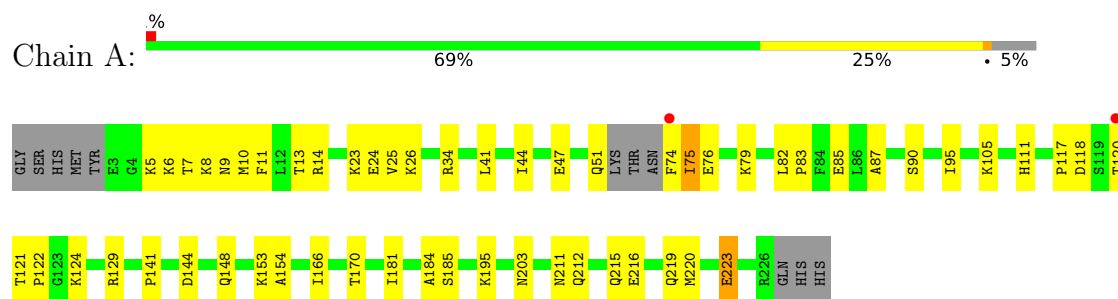
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	21	Total	O	0	0
			21	21		
9	B	20	Total	O	0	0
			20	20		

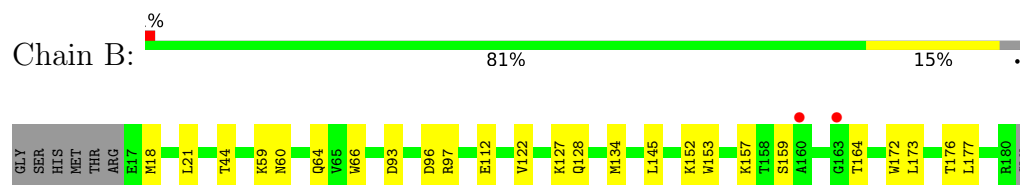
3 Residue-property plots [i](#)

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: Brefeldin A-inhibited guanine nucleotide-exchange protein 1



- Molecule 2: ADP-ribosylation factor-like protein 1



4 Data and refinement statistics

Property	Value	Source
Space group	I 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	84.17Å 50.73Å 103.84Å 90.00° 111.98° 90.00°	Depositor
Resolution (Å)	29.07 – 2.28 29.07 – 2.28	Depositor EDS
% Data completeness (in resolution range)	97.2 (29.07-2.28) 97.1 (29.07-2.28)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.82 (at 2.29Å)	Xtriage
Refinement program	PHENIX (phenix.refine: dev_1810)	Depositor
R, R_{free}	0.217 , 0.259 0.219 , 0.258	Depositor DCC
R_{free} test set	905 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	50.2	Xtriage
Anisotropy	0.626	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 43.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3009	wwPDB-VP
Average B, all atoms (Å ²)	67.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.76% 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: MG, CL, ACT, GTP, NA, ALY, GOL

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	0.53	0/1601	0.56	0/2151
2	B	0.47	0/1320	0.57	0/1784
All	All	0.50	0/2921	0.56	0/3935

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	1595	0	1647	52	0
2	B	1300	0	1323	15	0
3	A	6	0	0	0	0
3	B	8	0	0	0	0
4	A	6	0	8	0	0
4	B	6	0	8	1	0
5	A	6	0	0	3	0
5	B	1	0	0	0	0
6	B	32	0	12	1	0
7	B	4	0	0	0	0
8	B	4	0	3	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	A	21	0	0	0	0
9	B	20	0	0	2	0
All	All	3009	0	3001	67	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 11.

The worst 5 of 67 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:5:LYS:HG3	1:A:7:THR:H	1.16	1.10
1:A:8:LYS:NZ	1:A:75:ILE:O	1.87	1.05
1:A:122:PRO:HA	1:A:124:LYS:H	1.21	1.01
1:A:9:ASN:OD1	1:A:75:ILE:HG21	1.74	0.85
1:A:122:PRO:HA	1:A:124:LYS:N	1.95	0.81

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	197/213 (92%)	191 (97%)	6 (3%)	0	100	100
2	B	162/171 (95%)	154 (95%)	8 (5%)	0	100	100
All	All	359/384 (94%)	345 (96%)	14 (4%)	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	174/184 (95%)	169 (97%)	5 (3%)	37	51
2	B	143/149 (96%)	142 (99%)	1 (1%)	81	89
All	All	317/333 (95%)	311 (98%)	6 (2%)	52	67

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	120	THR
1	A	223	GLU
2	B	112	GLU
1	A	47	GLU
1	A	24	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	219	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](#)

1 non-standard protein/DNA/RNA residue is modelled in this entry.

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
1	ALY	A	195	1	10,11,12	0.91	0	7,12,14	1.26	2 (28%)

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
1	ALY	A	195	1	-	1/9/10/12	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	195	ALY	CE-NZ-CH	2.43	126.30	122.56
1	A	195	ALY	CD-CG-CB	-2.05	106.36	113.62

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	195	ALY	CG-CD-CE-NZ

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 29 ligands modelled in this entry, 25 are monoatomic - leaving 4 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	$\# Z > 2$
6	GTP	B	201	7	26,34,34	1.12	2 (7%)	32,54,54	1.39	5 (15%)
4	GOL	B	214	-	5,5,5	0.39	0	5,5,5	0.37	0
4	GOL	A	307	-	5,5,5	0.37	0	5,5,5	0.38	0
8	ACT	B	216	-	3,3,3	1.04	0	3,3,3	0.23	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
6	GTP	B	201	7	-	3/18/38/38	0/3/3/3
4	GOL	B	214	-	-	4/4/4/4	-
4	GOL	A	307	-	-	4/4/4/4	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	B	201	GTP	C5-C6	-3.60	1.40	1.47
6	B	201	GTP	C2-N3	2.40	1.39	1.33

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	201	GTP	C8-N7-C5	3.03	108.76	102.99
6	B	201	GTP	PB-O3B-PG	-2.83	123.11	132.83
6	B	201	GTP	C5-C6-N1	2.56	118.47	113.95
6	B	201	GTP	PA-O3A-PB	-2.44	124.46	132.83
6	B	201	GTP	C2-N1-C6	-2.43	120.63	125.10

There are no chirality outliers.

5 of 11 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	307	GOL	O1-C1-C2-C3
4	B	214	GOL	O1-C1-C2-C3
4	B	214	GOL	C1-C2-C3-O3
6	B	201	GTP	C5'-O5'-PA-O3A

Continued on next page...

Continued from previous page...

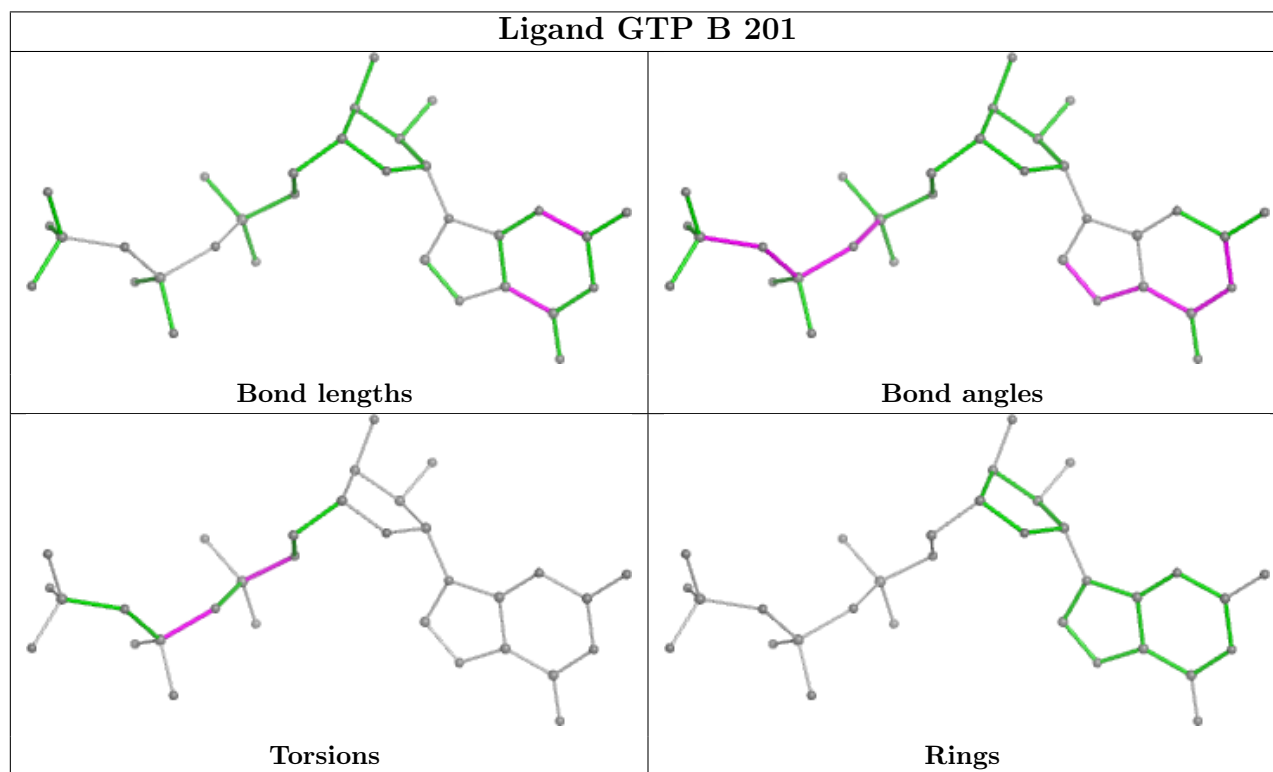
Mol	Chain	Res	Type	Atoms
4	A	307	GOL	C1-C2-C3-O3

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	201	GTP	1	0
4	B	214	GOL	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 [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	201/213 (94%)	0.36	2 (0%) 79 80	36, 67, 113, 124	0
2	B	164/171 (95%)	0.33	2 (1%) 76 77	36, 61, 95, 115	0
All	All	365/384 (95%)	0.35	4 (1%) 77 78	36, 63, 107, 124	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	74	PHE	3.0
2	B	160	ALA	2.2
1	A	120	THR	2.1
2	B	163	GLY	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	ALY	A	195	12/13	0.90	0.11	36,40,55,59	0

6.3 Carbohydrates [i](#)

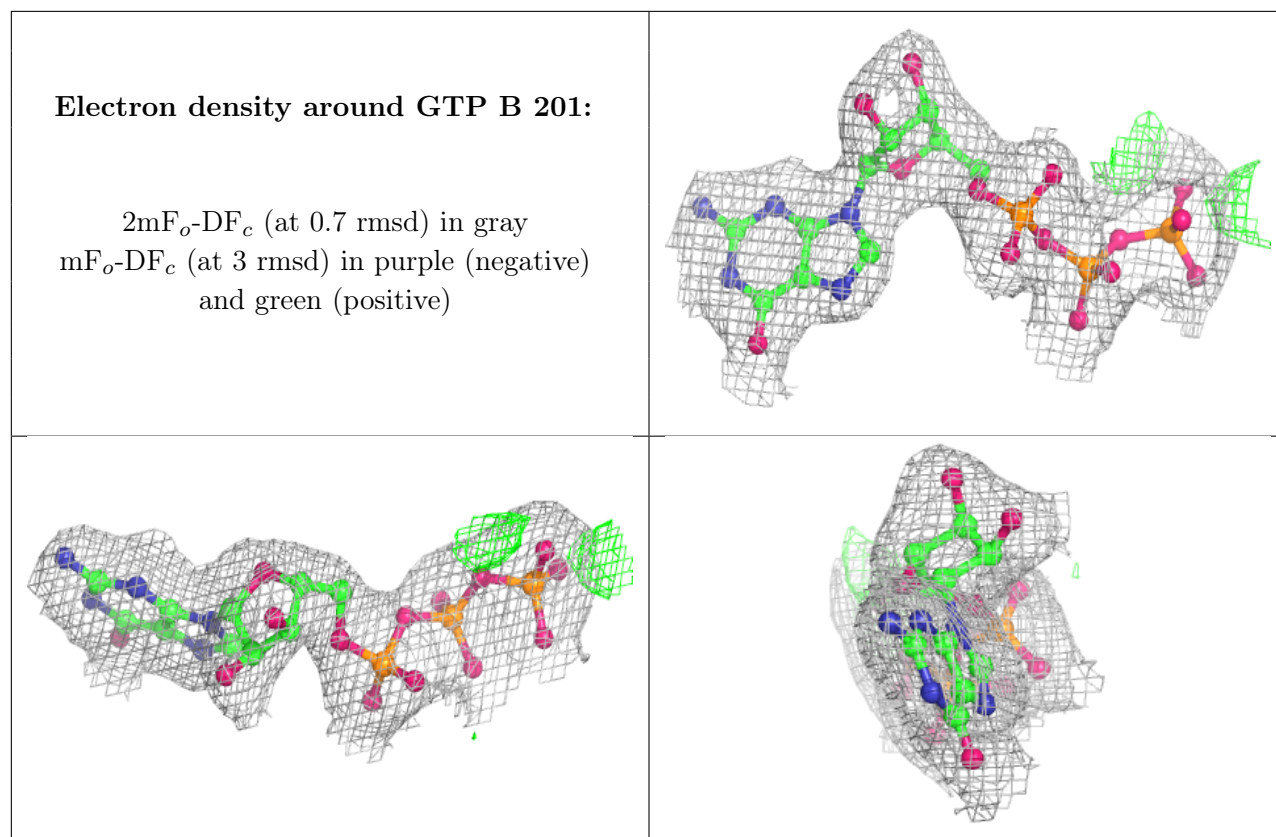
There are no monosaccharides in this entry.

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, 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
3	NA	A	305	1/1	0.52	0.20	98,98,98,98	0
3	NA	A	304	1/1	0.67	0.13	98,98,98,98	0
3	NA	B	207	1/1	0.71	0.08	94,94,94,94	0
3	NA	A	303	1/1	0.79	0.17	91,91,91,91	0
5	CL	A	309	1/1	0.80	0.10	99,99,99,99	0
3	NA	B	210	1/1	0.81	0.16	89,89,89,89	0
3	NA	A	306	1/1	0.84	0.17	78,78,78,78	0
3	NA	B	208	1/1	0.85	0.19	81,81,81,81	0
5	CL	A	310	1/1	0.85	0.08	97,97,97,97	0
5	CL	A	312	1/1	0.86	0.39	98,98,98,98	0
7	MG	B	203	1/1	0.86	0.12	64,64,64,64	0
8	ACT	B	216	4/4	0.86	0.11	50,55,56,61	0
4	GOL	B	214	6/6	0.87	0.12	53,55,60,64	0
3	NA	B	212	1/1	0.87	0.15	77,77,77,77	0
5	CL	A	308	1/1	0.88	0.20	66,66,66,66	0
4	GOL	A	307	6/6	0.88	0.09	68,69,72,72	0
3	NA	B	213	1/1	0.88	0.12	95,95,95,95	0
3	NA	A	302	1/1	0.89	0.16	67,67,67,67	0
3	NA	B	211	1/1	0.89	0.11	84,84,84,84	0
5	CL	A	313	1/1	0.90	0.13	107,107,107,107	0
3	NA	B	209	1/1	0.91	0.08	65,65,65,65	0
5	CL	A	311	1/1	0.91	0.08	95,95,95,95	0
3	NA	B	206	1/1	0.92	0.11	82,82,82,82	0
3	NA	A	301	1/1	0.92	0.19	74,74,74,74	0
7	MG	B	204	1/1	0.93	0.08	91,91,91,91	0
7	MG	B	202	1/1	0.93	0.07	43,43,43,43	0
7	MG	B	205	1/1	0.94	0.07	40,40,40,40	0
5	CL	B	215	1/1	0.95	0.10	85,85,85,85	0
6	GTP	B	201	32/32	0.96	0.07	34,51,57,59	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 [i](#)

There are no such residues in this entry.