



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 20, 2024 – 01:01 PM EST

PDB ID : 4LX0
Title : Crystal structure of Myo5b globular tail domain in complex with active Rab11a
Authors : Pylypenko, O.; Attanda, W.; Gauquelin, C.; Houdusse, A.
Deposited on : 2013-07-29
Resolution : 2.19 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 : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

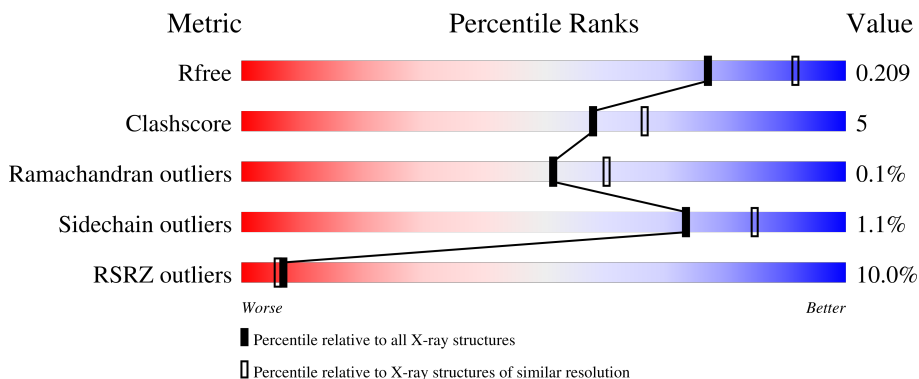
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.19 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}	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (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 $\leq 5\%$. 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	177	 3% 90% 6% . .
1	C	177	 16% 86% 10% .
2	B	427	 9% 82% 7% 11%
2	D	427	 9% 77% 12% 11%

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 9344 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 Ras-related protein Rab-11A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	171	1352	856	232	263	1	0	0	0
1	C	171	1317	835	223	258	1	0	0	0

- Molecule 2 is a protein called Unconventional myosin-Vb.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	382	2979	1892	509	553	25	0	1	0
2	D	380	2973	1888	501	559	25	0	2	0

There are 68 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	1423	MET	-	expression tag	UNP Q9ULV0
B	1424	ARG	-	expression tag	UNP Q9ULV0
B	1425	SER	-	expression tag	UNP Q9ULV0
B	1426	GLU	-	expression tag	UNP Q9ULV0
B	1427	THR	-	expression tag	UNP Q9ULV0
B	1428	MET	-	expression tag	UNP Q9ULV0
B	1429	SER	-	expression tag	UNP Q9ULV0
B	1430	TYR	-	expression tag	UNP Q9ULV0
B	1431	TYR	-	expression tag	UNP Q9ULV0
B	1432	HIS	-	expression tag	UNP Q9ULV0
B	1433	HIS	-	expression tag	UNP Q9ULV0
B	1434	HIS	-	expression tag	UNP Q9ULV0
B	1435	HIS	-	expression tag	UNP Q9ULV0
B	1436	HIS	-	expression tag	UNP Q9ULV0
B	1437	HIS	-	expression tag	UNP Q9ULV0
B	1438	ASP	-	expression tag	UNP Q9ULV0

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Chain	Residue	Modelled	Actual	Comment	Reference
B	1439	TYR	-	expression tag	UNP Q9ULV0
B	1440	ASP	-	expression tag	UNP Q9ULV0
B	1441	ILE	-	expression tag	UNP Q9ULV0
B	1442	PRO	-	expression tag	UNP Q9ULV0
B	1443	THR	-	expression tag	UNP Q9ULV0
B	1444	THR	-	expression tag	UNP Q9ULV0
B	1445	GLU	-	expression tag	UNP Q9ULV0
B	1446	ASN	-	expression tag	UNP Q9ULV0
B	1447	LEU	-	expression tag	UNP Q9ULV0
B	1448	TYR	-	expression tag	UNP Q9ULV0
B	1449	PHE	-	expression tag	UNP Q9ULV0
B	1450	GLN	-	expression tag	UNP Q9ULV0
B	1451	GLY	-	expression tag	UNP Q9ULV0
B	1452	ALA	-	expression tag	UNP Q9ULV0
B	1452A	MET	-	expression tag	UNP Q9ULV0
B	1452B	GLY	-	expression tag	UNP Q9ULV0
B	1452C	SER	-	expression tag	UNP Q9ULV0
B	1455	MET	-	expression tag	UNP Q9ULV0
D	1420	MET	-	expression tag	UNP Q9ULV0
D	1421	ARG	-	expression tag	UNP Q9ULV0
D	1422	SER	-	expression tag	UNP Q9ULV0
D	1423	GLU	-	expression tag	UNP Q9ULV0
D	1424	THR	-	expression tag	UNP Q9ULV0
D	1425	MET	-	expression tag	UNP Q9ULV0
D	1426	SER	-	expression tag	UNP Q9ULV0
D	1427	TYR	-	expression tag	UNP Q9ULV0
D	1428	TYR	-	expression tag	UNP Q9ULV0
D	1429	HIS	-	expression tag	UNP Q9ULV0
D	1430	HIS	-	expression tag	UNP Q9ULV0
D	1431	HIS	-	expression tag	UNP Q9ULV0
D	1432	HIS	-	expression tag	UNP Q9ULV0
D	1433	HIS	-	expression tag	UNP Q9ULV0
D	1434	HIS	-	expression tag	UNP Q9ULV0
D	1435	ASP	-	expression tag	UNP Q9ULV0
D	1436	TYR	-	expression tag	UNP Q9ULV0
D	1437	ASP	-	expression tag	UNP Q9ULV0
D	1438	ILE	-	expression tag	UNP Q9ULV0
D	1439	PRO	-	expression tag	UNP Q9ULV0
D	1440	THR	-	expression tag	UNP Q9ULV0
D	1441	THR	-	expression tag	UNP Q9ULV0
D	1442	GLU	-	expression tag	UNP Q9ULV0
D	1443	ASN	-	expression tag	UNP Q9ULV0

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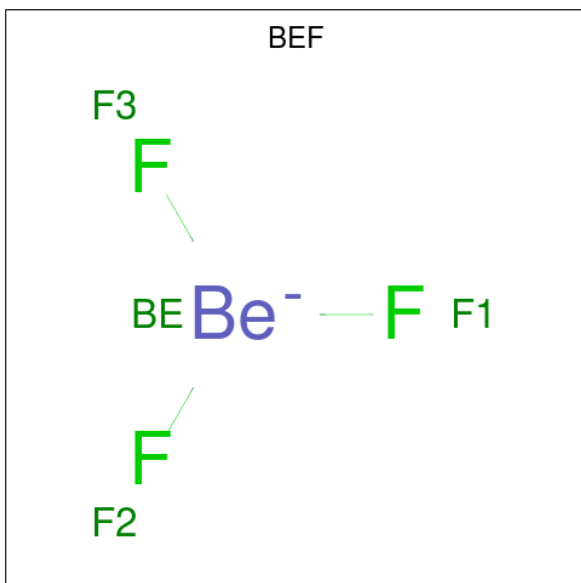
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Chain	Residue	Modelled	Actual	Comment	Reference
D	1444	LEU	-	expression tag	UNP Q9ULV0
D	1445	TYR	-	expression tag	UNP Q9ULV0
D	1446	PHE	-	expression tag	UNP Q9ULV0
D	1447	GLN	-	expression tag	UNP Q9ULV0
D	1448	GLY	-	expression tag	UNP Q9ULV0
D	1449	ALA	-	expression tag	UNP Q9ULV0
D	1450	MET	-	expression tag	UNP Q9ULV0
D	1451	GLY	-	expression tag	UNP Q9ULV0
D	1454	SER	-	expression tag	UNP Q9ULV0
D	1455	MET	-	expression tag	UNP Q9ULV0

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Mg 1 1	0	0
3	C	1	Total Mg 1 1	0	0

- Molecule 4 is BERYLLIUM TRIFLUORIDE ION (three-letter code: BEF) (formula: BeF₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Be F 4 1 3	0	0
4	C	1	Total Be F 4 1 3	0	0

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

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	187	Total	O	0	0
			187	187		
7	B	225	Total	O	0	0
			225	225		
7	C	51	Total	O	0	0
			51	51		
7	D	188	Total	O	0	0
			188	188		

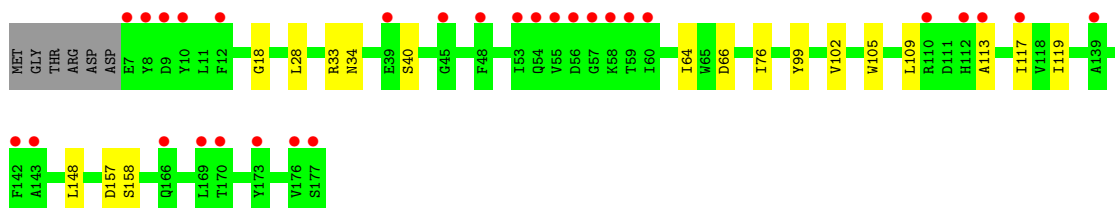
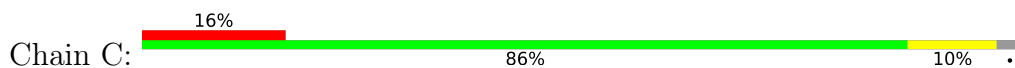
3 Residue-property plots [i](#)

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.

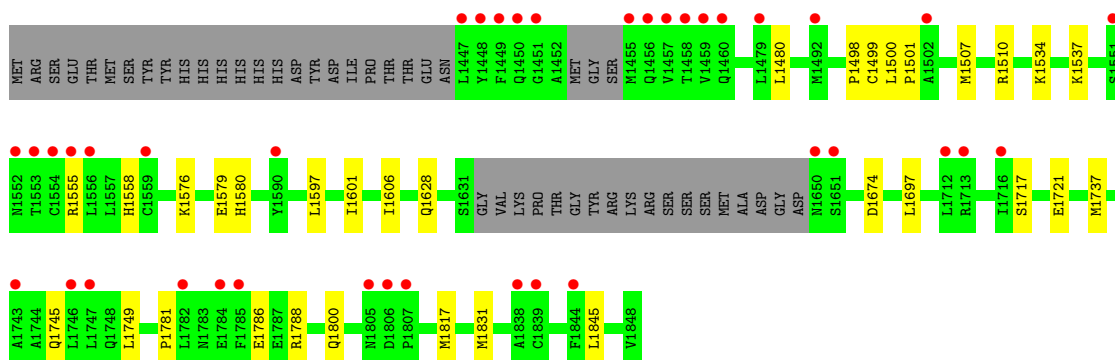
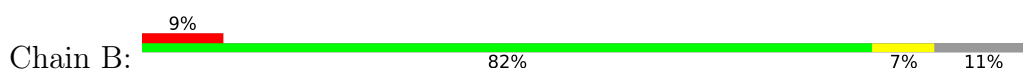
- Molecule 1: Ras-related protein Rab-11A



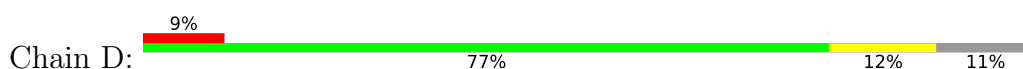
- Molecule 1: Ras-related protein Rab-11A

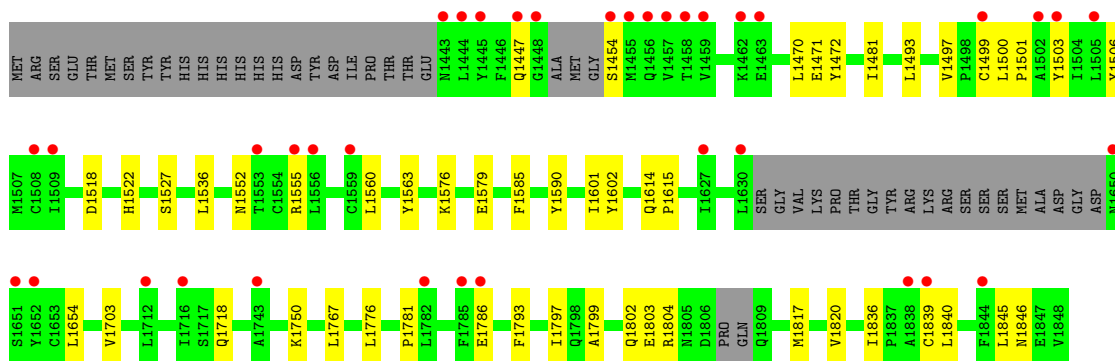


- Molecule 2: Unconventional myosin-Vb



- Molecule 2: Unconventional myosin-Vb





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	95.10Å 125.92Å 157.66Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	31.50 – 2.19 31.52 – 2.19	Depositor EDS
% Data completeness (in resolution range)	99.9 (31.50-2.19) 100.0 (31.52-2.19)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.82 (at 2.20Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.7.2_869)	Depositor
R, R_{free}	0.181 , 0.218 0.173 , 0.209	Depositor DCC
R_{free} test set	4890 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	51.8	Xtrriage
Anisotropy	0.588	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 64.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	9344	wwPDB-VP
Average B, all atoms (Å ²)	73.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.75% 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: BEF, GDP, MG, 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	0.76	0/1374	0.75	0/1859
1	C	0.48	0/1338	0.62	0/1815
2	B	0.60	0/3032	0.62	0/4112
2	D	0.58	0/3026	0.63	0/4101
All	All	0.61	0/8770	0.65	0/11887

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	1352	0	1333	8	0
1	C	1317	0	1268	13	0
2	B	2979	0	2928	21	0
2	D	2973	0	2913	41	0
3	A	1	0	0	0	0
3	C	1	0	0	0	0
4	A	4	0	0	0	0
4	C	4	0	0	0	0
5	A	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	C	28	0	12	0	0
6	A	6	0	8	0	0
7	A	187	0	0	3	0
7	B	225	0	0	2	0
7	C	51	0	0	1	0
7	D	188	0	0	1	0
All	All	9344	0	8474	82	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 82 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)
2:D:1767:LEU:O	2:D:1804:ARG:NH2	2.24	0.69
2:D:1776:LEU:CD1	2:D:1797:ILE:HD13	2.23	0.69
1:C:117:ILE:HD11	7:C:312:HOH:O	1.95	0.67
2:D:1839:CYS:SG	2:D:1840:LEU:HD12	2.35	0.67
2:D:1776:LEU:HD11	2:D:1797:ILE:HD13	1.76	0.66

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	169/177 (96%)	164 (97%)	5 (3%)	0	100	100
1	C	169/177 (96%)	162 (96%)	6 (4%)	1 (1%)	25	26
2	B	377/427 (88%)	368 (98%)	9 (2%)	0	100	100
2	D	374/427 (88%)	367 (98%)	7 (2%)	0	100	100
All	All	1089/1208 (90%)	1061 (97%)	27 (2%)	1 (0%)	51	60

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	34	ASN

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	143/150 (95%)	140 (98%)	3 (2%)	53	67
1	C	134/150 (89%)	132 (98%)	2 (2%)	65	78
2	B	323/391 (83%)	320 (99%)	3 (1%)	78	88
2	D	324/391 (83%)	322 (99%)	2 (1%)	86	93
All	All	924/1082 (85%)	914 (99%)	10 (1%)	73	85

5 of 10 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	40	SER
2	D	1703	VAL
2	D	1817	MET
2	B	1510	ARG
2	B	1737	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	1511	HIS
2	B	1558	HIS
2	B	1800	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 2 are monoatomic - leaving 5 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	BEF	C	202	5	0,3,3	-	-	-		
5	GDP	A	203	4,3	24,30,30	1.06	1 (4%)	30,47,47	1.54	4 (13%)
5	GDP	C	203	4,3	24,30,30	1.02	2 (8%)	30,47,47	1.42	6 (20%)
4	BEF	A	202	5	0,3,3	-	-	-		
6	GOL	A	204	-	5,5,5	0.34	0	5,5,5	0.41	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	GDP	C	203	4,3	-	1/12/32/32	0/3/3/3
6	GOL	A	204	-	-	4/4/4/4	-
5	GDP	A	203	4,3	-	1/12/32/32	0/3/3/3

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	203	GDP	C6-N1	-3.00	1.33	1.37
5	C	203	GDP	O4'-C1'	2.23	1.44	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	203	GDP	C6-N1	-2.22	1.34	1.37

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	203	GDP	C3'-C2'-C1'	3.84	106.76	100.98
5	A	203	GDP	O2'-C2'-C1'	3.47	123.67	110.85
5	A	203	GDP	O2'-C2'-C3'	3.37	122.71	111.82
5	C	203	GDP	O3'-C3'-C2'	-2.96	102.24	111.82
5	C	203	GDP	O6-C6-C5	-2.94	118.63	124.37

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

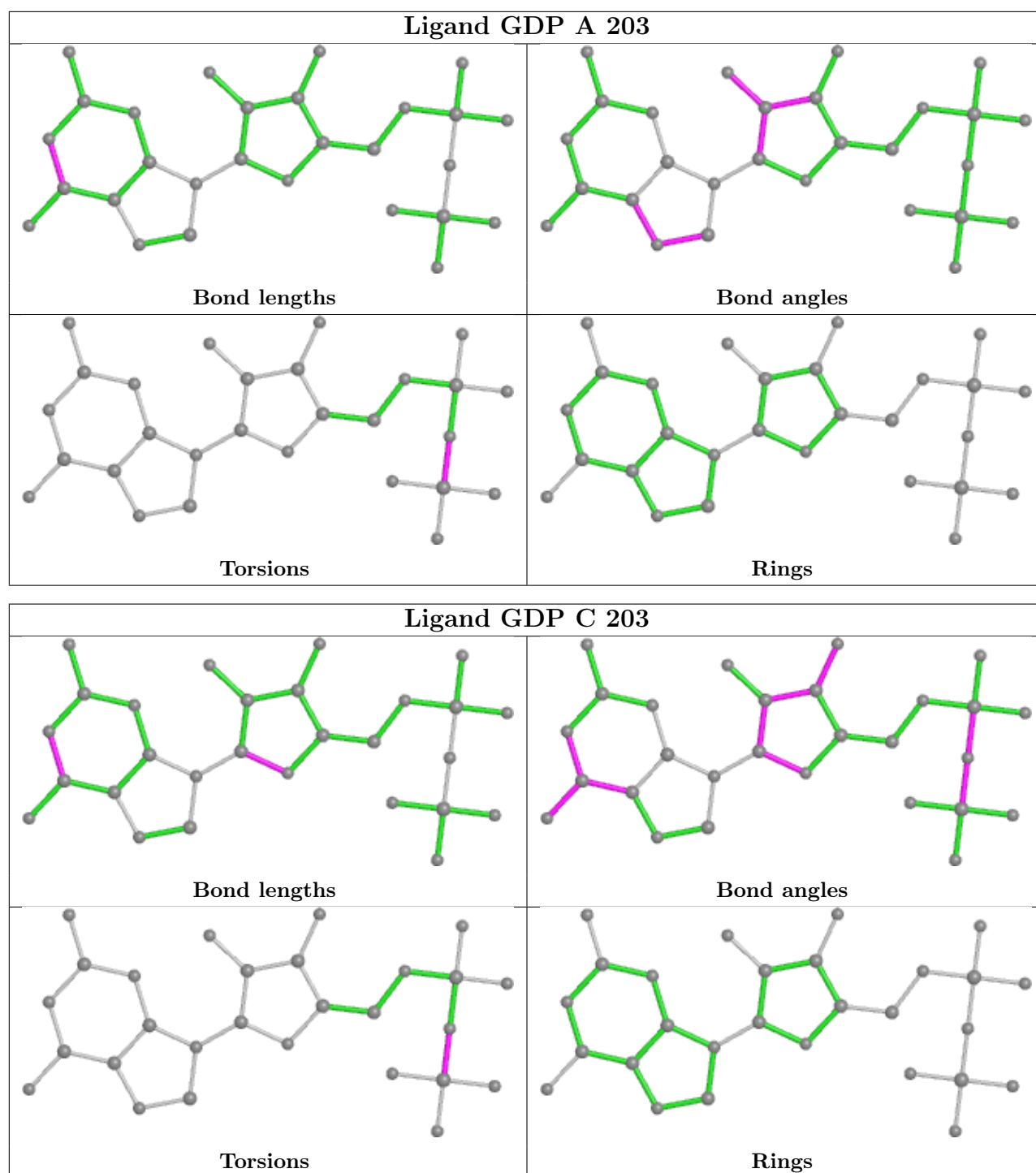
Mol	Chain	Res	Type	Atoms
5	A	203	GDP	PA-O3A-PB-O2B
5	C	203	GDP	PA-O3A-PB-O2B
6	A	204	GOL	O1-C1-C2-C3
6	A	204	GOL	O1-C1-C2-O2
6	A	204	GOL	C1-C2-C3-O3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	203	GDP	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	171/177 (96%)	0.01	5 (2%) 51 49	36, 49, 75, 113	0
1	C	171/177 (96%)	0.95	29 (16%) 1 1	47, 89, 143, 168	0
2	B	382/427 (89%)	0.34	39 (10%) 6 6	37, 67, 120, 173	0
2	D	380/427 (88%)	0.30	37 (9%) 7 6	40, 68, 120, 154	0
All	All	1104/1208 (91%)	0.37	110 (9%) 7 6	36, 67, 124, 173	0

The worst 5 of 110 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	1457	VAL	8.6
1	C	173	TYR	7.6
1	C	55	VAL	7.3
2	D	1454	SER	6.9
1	C	176	VAL	6.6

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](#)

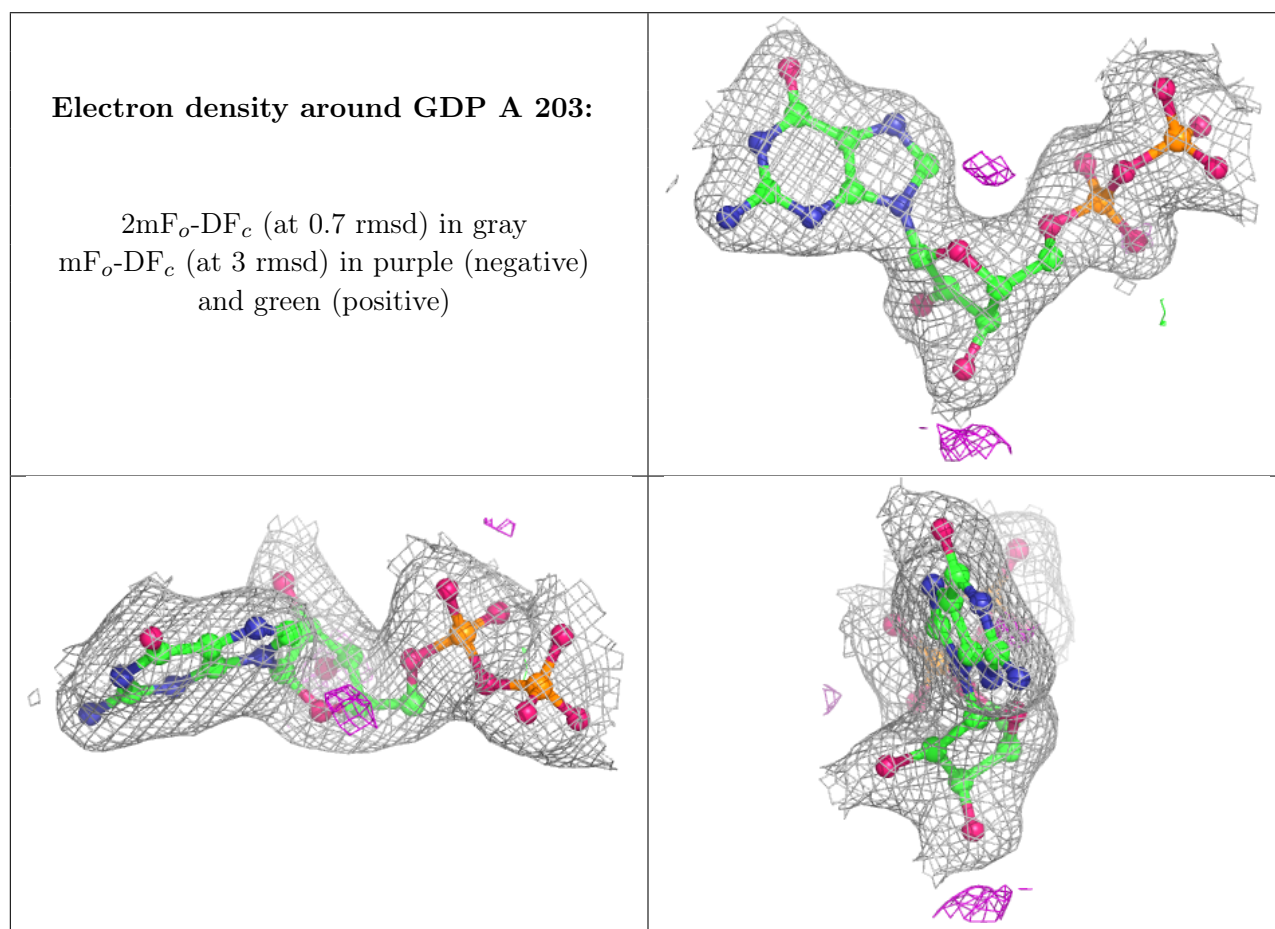
There are no monosaccharides in this entry.

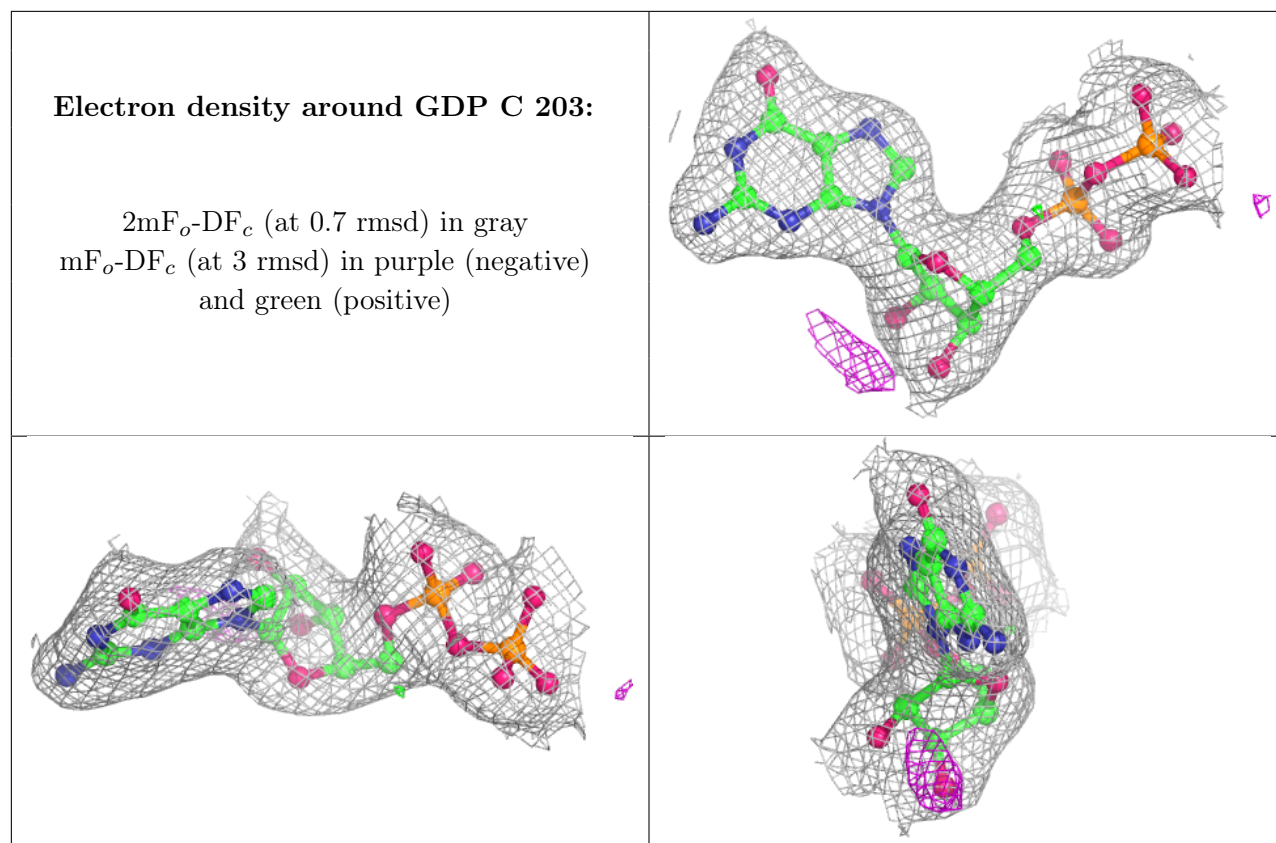
6.4 Ligands [i](#)

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(\AA^2)	Q<0.9
4	BEF	C	202	4/4	0.93	0.07	49,50,52,54	0
6	GOL	A	204	6/6	0.94	0.09	57,67,71,80	0
4	BEF	A	202	4/4	0.96	0.09	42,43,44,45	0
3	MG	C	201	1/1	0.98	0.12	58,58,58,58	0
5	GDP	A	203	28/28	0.99	0.09	37,43,52,55	0
5	GDP	C	203	28/28	0.99	0.09	43,50,62,65	0
3	MG	A	201	1/1	0.99	0.18	42,42,42,42	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.