

# Full wwPDB X-ray Structure Validation Report (i)

#### Nov 16, 2023 – 09:34 AM JST

PDB ID	:	6LJ3
Title	:	full length ASFV dUTPase in complex with alpha, beta-iminodUTP and mag-
		nesium ion
Authors	:	Liang, R.; Peng, G.Q.
Deposited on	:	2019-12-13
Resolution	:	2.00  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 (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 (1)) were used in the production of this report:

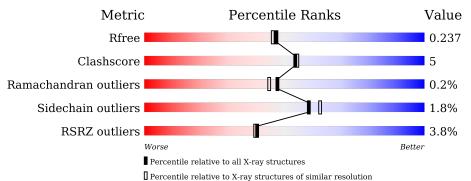
MolProbity Mogul Xtriage (Phenix) EDS	:	4.02b-467 1.8.5 (274361), CSD as541be (2020) 1.13 2.36
buster-report Percentile statistics Refmac	: : :	1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		Parkinson et al. (1996) 2.36

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 2.00 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R <sub>free</sub>	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	А	165	87%	11% ••
1	В	165	<sup>2%</sup> 79%	8% • 12%
1	С	165	% <b>78%</b>	7% 15%



# 2 Entry composition (i)

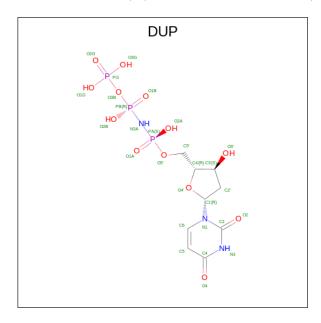
There are 4 unique types of molecules in this entry. The entry contains 3949 atoms, of which 0 are hydrogens and 0 are deuteriums.

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.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	1 A	164	Total	С	Ν	0	$\mathbf{S}$	0	0	0
		104	1269	811	221	226	11	0	0	0
1	В	145	Total	С	Ν	0	S	0	0	0
	D	140	1132	730	193	199	10			
1	С	140	Total	С	Ν	0	S	0	0	0
		140	1094	702	188	194	10			0

• Molecule 1 is a protein called E165R.

• Molecule 2 is 2'-DEOXYURIDINE 5'-ALPHA, BETA-IMIDO-TRIPHOSPHATE (threeletter code: DUP) (formula: C<sub>9</sub>H<sub>16</sub>N<sub>3</sub>O<sub>13</sub>P<sub>3</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf			
9	Δ	1	Total	С	Ν	Ο	Р	0	0		
2	Z A	1	28	9	3	13	3	0	0		
9	2 A	۸	٨	1	Total	С	Ν	Ο	Р	0	0
		1	28	9	3	13	3	0	0		
9	B	1	Total	С	Ν	Ο	Р	0	0		
	2 B		28	9	3	13	3	0	0		





• Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Mg 1 1	0	0
3	В	1	Total Mg 1 1	0	0
3	С	1	Total Mg 1 1	0	0

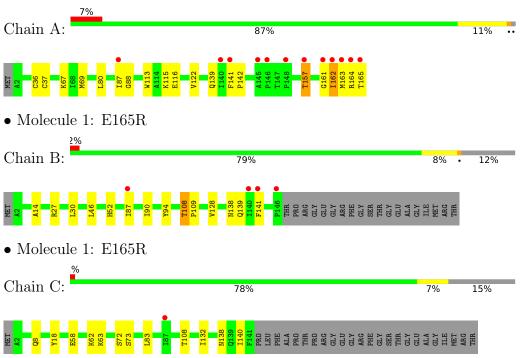
• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	120	Total O 120 120	0	0
4	В	139	Total O 139 139	0	0
4	С	108	Total O 108 108	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: E165R



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Depositor
Resolution (Å)	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor EDS
% Data completeness (in resolution range)	73.7 (34.24-2.00) 73.7 (34.21-1.96)	Depositor EDS
R <sub>merge</sub> R <sub>sym</sub>	(Not available) (Not available)	Depositor Depositor
$< I/\sigma(I) > 1$	$1.86 (at 1.97 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
$R, R_{free}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor DCC
$R_{free}$ test set	1504 reflections $(5.07%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	20.5	Xtriage
Anisotropy	0.228	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.35 , $43.3$	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.022 for k,h,-l	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	3949	wwPDB-VP
Average B, all atoms $(Å^2)$	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.35% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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: DUP, MG

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		
	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.66	0/1295	0.86	1/1753~(0.1%)	
1	В	0.65	0/1156	0.79	0/1568	
1	С	0.66	0/1115	0.83	0/1510	
All	All	0.66	0/3566	0.83	1/4831~(0.0%)	

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	162	ILE	N-CA-CB	5.69	123.88	110.80

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	А	1269	0	1299	18	0
1	В	1132	0	1166	14	0
1	С	1094	0	1127	10	0
2	А	56	0	24	6	0
2	В	28	0	12	0	0
3	А	1	0	0	0	0
3	В	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	С	1	0	0	0	0
4	А	120	0	0	2	0
4	В	139	0	0	5	0
4	С	108	0	0	3	0
All	All	3949	0	3628	38	0

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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.

All (38) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	overlap (Å)
1:A:69:MET:HE3	1:A:122:VAL:HG21	1.54	0.89
1:B:138:ASN:HB3	4:B:417:HOH:O	1.73	0.88
1:B:139:GLN:HB2	1:B:141:PHE:CE2	2.22	0.74
1:A:157:THR:HG23	1:A:161:GLY:C	2.10	0.72
1:B:108:THR:HG23	4:B:388:HOH:O	1.90	0.71
1:A:139:GLN:NE2	4:A:302:HOH:O	2.26	0.65
1:A:161:GLY:O	1:A:163:MET:N	2.30	0.61
1:A:157:THR:HB	2:A:201:DUP:O1G	2.00	0.61
1:A:69:MET:CE	1:A:122:VAL:HG21	2.29	0.59
1:B:138:ASN:ND2	4:B:301:HOH:O	2.35	0.59
1:B:30:LEU:HD23	1:B:128:VAL:HG22	1.84	0.58
1:B:108:THR:CG2	4:B:388:HOH:O	2.51	0.56
1:B:138:ASN:CB	4:B:417:HOH:O	2.41	0.54
2:A:201:DUP:H3A	1:C:72:SER:H	1.56	0.53
1:A:67:LYS:HA	1:A:88:GLY:O	2.09	0.51
1:C:132:ILE:N	1:C:132:ILE:HD12	2.25	0.51
1:A:113:TRP:HB2	1:A:116:GLU:HG3	1.93	0.51
1:C:140:ILE:HG22	4:C:343:HOH:O	2.12	0.50
1:C:58:GLU:HG3	4:C:350:HOH:O	2.13	0.48
2:A:201:DUP:O2B	1:C:73:SER:OG	2.29	0.46
1:A:165:THR:CG2	1:C:18:TYR:HA	2.45	0.46
1:A:157:THR:HG23	1:A:161:GLY:O	2.16	0.45
1:B:30:LEU:CD2	1:B:128:VAL:HG22	2.46	0.45
1:A:87:ILE:HG21	1:B:87:ILE:HD12	1.98	0.45
1:C:8:GLN:OE1	1:C:138:ASN:HA	2.16	0.44
2:A:202:DUP:H2'1	1:B:90:ILE:HD12	2.01	0.43
1:A:161:GLY:C	1:A:163:MET:N	2.71	0.43
1:A:36:CYS:O	1:A:37:CYS:HB2	2.19	0.43
1:A:157:THR:CB	2:A:201:DUP:O1G	2.67	0.42

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Atom-1	Atom-2	Interatomic	Clash
		distance $(Å)$	overlap (Å)
1:B:108:THR:HA	1:B:109:PRO:HD3	1.87	0.42
1:C:63:LYS:NZ	4:C:302:HOH:O	2.47	0.42
1:A:165:THR:HG23	1:C:18:TYR:HA	2.02	0.41
1:B:14:ALA:HB2	1:B:52:HIS:HB3	2.01	0.41
1:C:83:LEU:HD23	1:C:83:LEU:HA	1.94	0.41
1:A:157:THR:HG21	4:A:347:HOH:O	2.21	0.41
2:A:202:DUP:H2'2	1:B:94:TYR:CG	2.56	0.40
1:A:80:LEU:HD21	1:B:46:LEU:HB2	2.03	0.40
1:A:141:PHE:CD1	1:A:142:PRO:HD2	2.57	0.40

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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	А	162/165~(98%)	153~(94%)	8 (5%)	1 (1%)	25 19
1	В	143/165~(87%)	140 (98%)	3(2%)	0	100 100
1	С	138/165~(84%)	135 (98%)	3 (2%)	0	100 100
All	All	443/495~(90%)	428 (97%)	14 (3%)	1 (0%)	47 44

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	164	ARG

#### 5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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.



Mol	Chain	Analysed	Rotameric	Outliers	Percentiles		
1	А	139/140~(99%)	136~(98%)	3~(2%)	52 55		
1	В	126/140~(90%)	124~(98%)	2(2%)	62 67		
1	С	122/140~(87%)	120~(98%)	2(2%)	62 67		
All	All	387/420~(92%)	380~(98%)	7 (2%)	59 63		

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	$\mathbf{Res}$	Type
1	А	115	LYS
1	А	157	THR
1	А	162	ILE
1	В	27	ARG
1	В	108	THR
1	С	62	LYS
1	С	108	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

#### 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 6 ligands modelled in this entry, 3 are monoatomic - leaving 3 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	Bo	Bond lengths			Bond angles		
IVIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2	
2	DUP	В	202	3	$25,\!29,\!29$	2.21	8 (32%)	30,45,45	1.39	4 (13%)	
2	DUP	А	201	3	25,29,29	1.98	6 (24%)	30,45,45	1.66	4 (13%)	
2	DUP	А	202	3	25,29,29	2.06	8 (32%)	30,45,45	1.26	4 (13%)	

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	DUP	В	202	3	-	3/16/34/34	0/2/2/2
2	DUP	А	201	3	-	5/16/34/34	0/2/2/2
2	DUP	А	202	3	-	1/16/34/34	0/2/2/2

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
2	В	202	DUP	PB-O3B	4.98	1.65	1.59
2	А	202	DUP	PA-O1A	4.93	1.54	1.46
2	В	202	DUP	PA-O1A	4.85	1.53	1.46
2	А	201	DUP	PA-O1A	4.76	1.53	1.46
2	В	202	DUP	PB-O1B	4.20	1.52	1.46
2	А	201	DUP	PB-O1B	3.99	1.52	1.46
2	А	202	DUP	PB-O3B	3.84	1.63	1.59
2	А	201	DUP	O4'-C1'	3.56	1.50	1.42
2	А	201	DUP	PA-O5'	3.56	1.71	1.57
2	А	202	DUP	PB-O1B	3.30	1.51	1.46
2	А	202	DUP	O3'-C3'	3.30	1.50	1.43
2	В	202	DUP	PA-N3A	3.12	1.71	1.63
2	А	202	DUP	PA-O5'	3.02	1.69	1.57
2	В	202	DUP	PA-O5'	2.99	1.69	1.57
2	А	201	DUP	C2'-C3'	-2.87	1.45	1.52
2	В	202	DUP	O3'-C3'	2.60	1.48	1.43
2	В	202	DUP	O4'-C1'	2.60	1.48	1.42
2	А	202	DUP	O4'-C1'	2.59	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	А	202	DUP	C2'- $C3$ '	-2.59	1.46	1.52
2	А	202	DUP	PA-N3A	2.40	1.69	1.63
2	В	202	DUP	C2'-C3'	-2.35	1.46	1.52
2	А	201	DUP	PA-N3A	2.10	1.68	1.63

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All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	201	DUP	O1A-PA-N3A	6.59	121.48	111.77
2	А	202	DUP	PB-O3B-PG	-4.24	117.67	132.62
2	В	202	DUP	O1A-PA-N3A	3.22	116.51	111.77
2	А	201	DUP	O2B-PB-O1B	2.98	116.17	109.92
2	В	202	DUP	O3G-PG-O3B	2.81	114.08	104.64
2	А	201	DUP	PB-O3B-PG	-2.65	123.28	132.62
2	В	202	DUP	PB-O3B-PG	-2.64	123.31	132.62
2	А	202	DUP	O1A-PA-N3A	-2.58	107.97	111.77
2	А	202	DUP	C5-C4-N3	-2.45	117.91	123.31
2	А	202	DUP	C6-N1-C2	-2.26	117.60	121.20
2	А	201	DUP	C4'-O4'-C1'	-2.16	104.24	109.45
2	В	202	DUP	C5-C4-N3	-2.12	118.65	123.31

There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
2	А	201	DUP	C5'-O5'-PA-O2A
2	А	201	DUP	PA-N3A-PB-O1B
2	А	201	DUP	PG-O3B-PB-O1B
2	А	201	DUP	PG-O3B-PB-O2B
2	А	202	DUP	PB-N3A-PA-O1A
2	В	202	DUP	C5'-O5'-PA-O2A
2	В	202	DUP	PG-O3B-PB-O1B
2	В	202	DUP	PG-O3B-PB-O2B
2	А	201	DUP	PA-N3A-PB-O3B

All (9) torsion outliers are listed below:

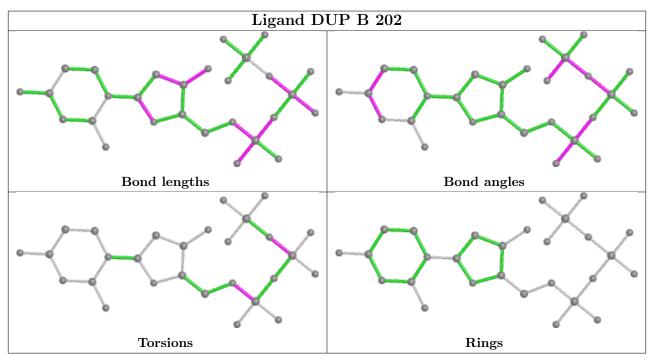
There are no ring outliers.

2 monomers are involved in 6 short contacts:

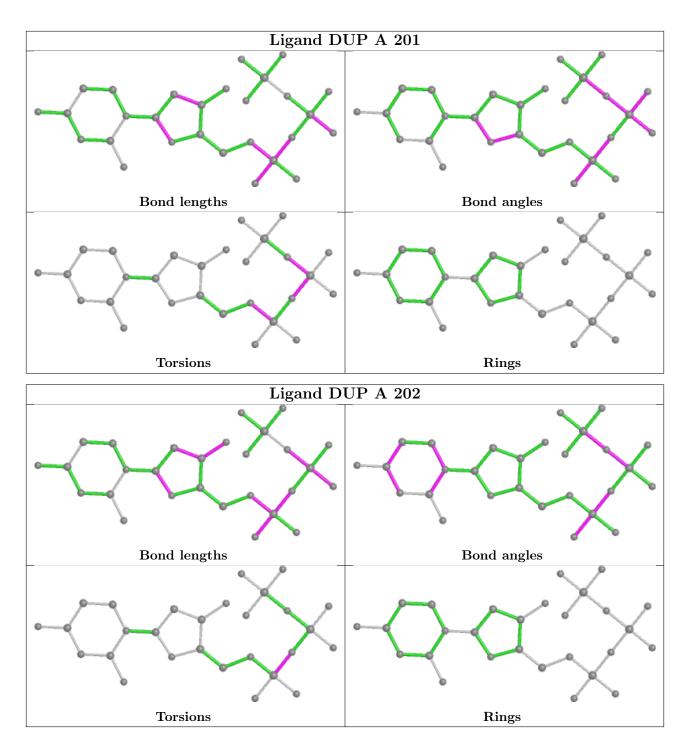
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	А	201	DUP	4	0
2	А	202	DUP	2	0



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 similar 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,  $95^{th}$  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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	164/165~(99%)	0.04	12 (7%) 15 14	13, 22, 53, 91	0
1	В	145/165~(87%)	-0.26	4 (2%) 53 51	12, 19, 46, 70	0
1	С	140/165~(84%)	-0.15	1 (0%) 87 87	13, 23, 38, 48	0
All	All	449/495~(90%)	-0.12	17 (3%) 40 39	12, 21, 48, 91	0

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	162	ILE	11.5
1	А	165	THR	5.6
1	А	161	GLY	4.2
1	В	146	PRO	4.2
1	В	140	ILE	4.1
1	А	146	PRO	3.9
1	А	87	ILE	3.5
1	А	163	MET	3.5
1	А	140	ILE	3.1
1	А	148	PRO	3.0
1	В	87	ILE	2.9
1	С	87	ILE	2.8
1	А	145	ALA	2.5
1	А	141	PHE	2.5
1	А	157	THR	2.2
1	А	164	ARG	2.2
1	В	141	PHE	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 monosaccharides in this entry.

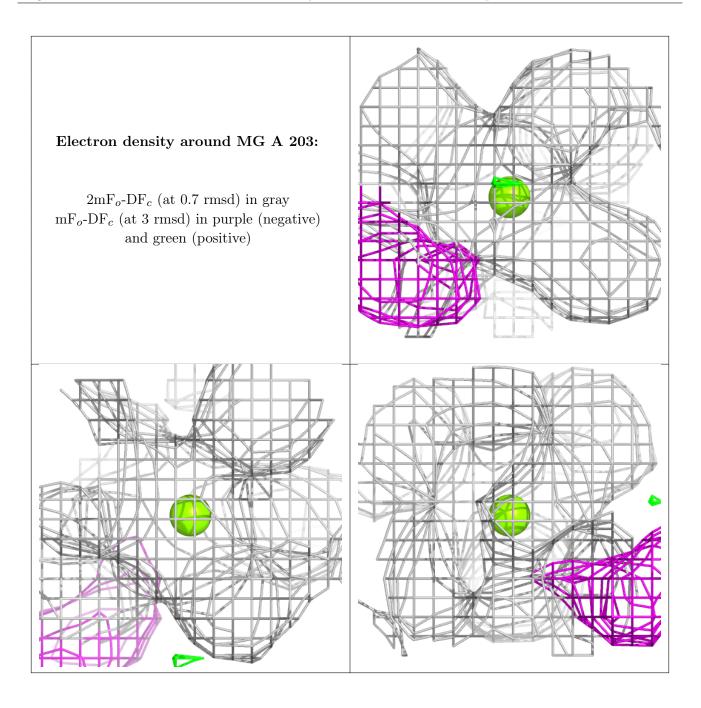
#### 6.4 Ligands (i)

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,  $95^{th}$  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.

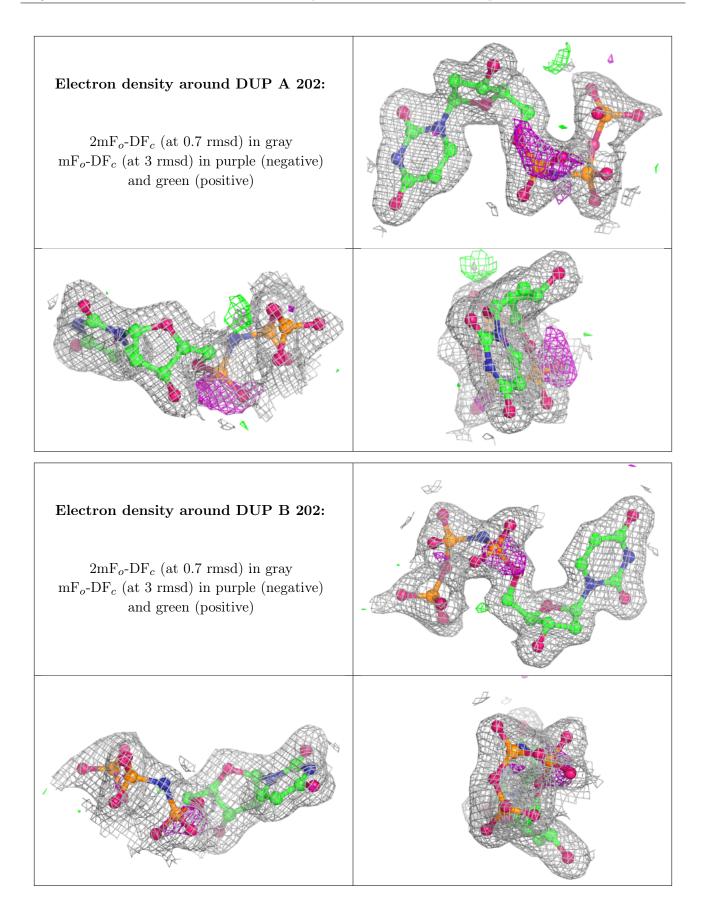
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
3	MG	А	203	1/1	0.94	0.06	30,30,30,30	0
2	DUP	А	202	28/28	0.95	0.09	18,24,40,45	0
2	DUP	В	202	28/28	0.96	0.08	19,22,39,43	0
2	DUP	А	201	28/28	0.97	0.07	20,23,29,32	0
3	MG	В	201	1/1	0.97	0.04	31,31,31,31	0
3	MG	С	201	1/1	0.97	0.06	30,30,30,30	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.

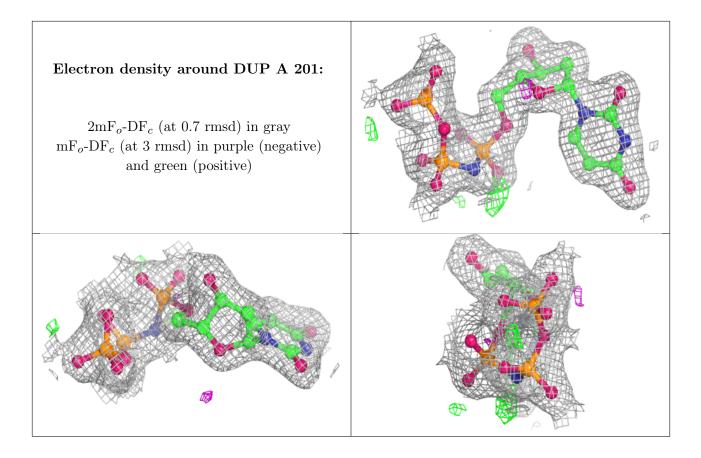




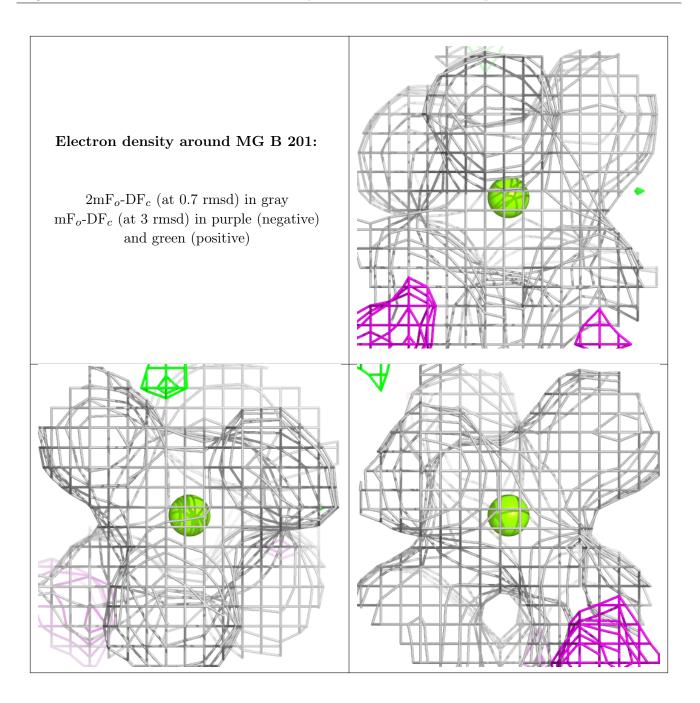




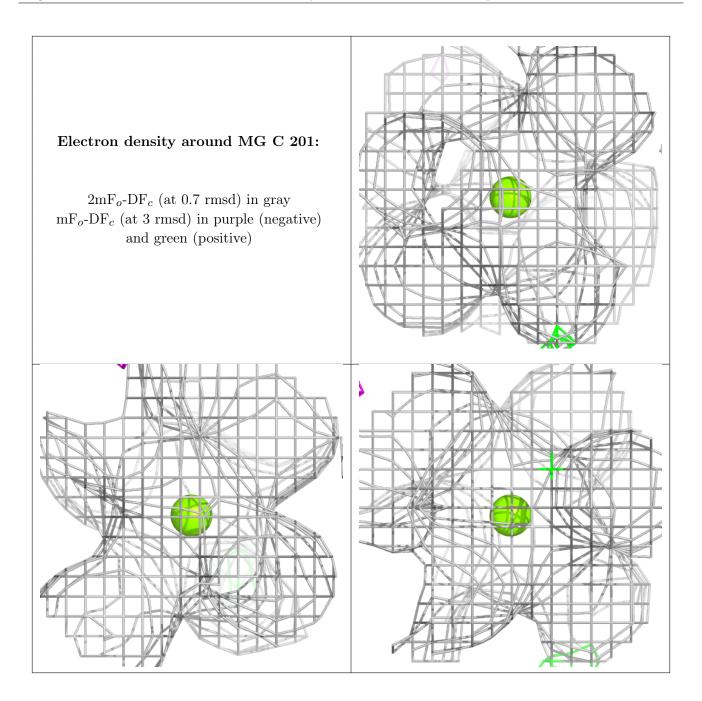












## 6.5 Other polymers (i)

There are no such residues in this entry.

