



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 31, 2022 – 12:10 PM JST

PDB ID : 7W3S  
Title : The complex structure of Larg1-ADPr from Legionella pneumophila  
Authors : Ouyang, S.; Guan, H.; Li, P.  
Deposited on : 2021-11-26  
Resolution : 2.32 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](mailto: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.

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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 : 2.27  
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) : 2.27

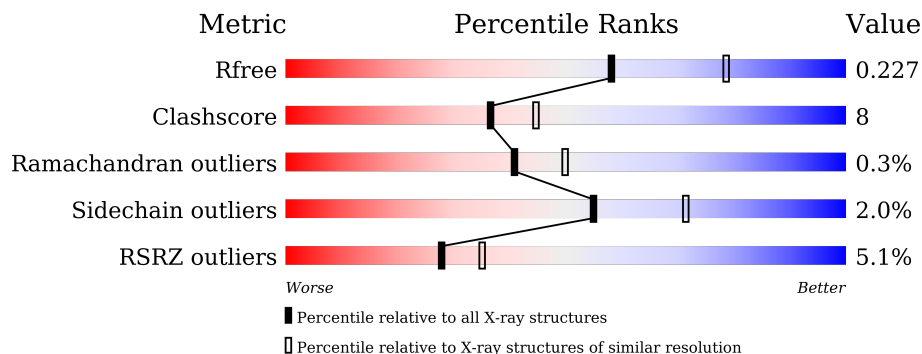
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.32 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	5974 (2.34-2.30)
Clashscore	141614	6604 (2.34-2.30)
Ramachandran outliers	138981	6523 (2.34-2.30)
Sidechain outliers	138945	6523 (2.34-2.30)
RSRZ outliers	127900	5855 (2.34-2.30)

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  $\geq 3$ , 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	413	 5% 83% 17%
1	B	413	 3% 82% 17%
1	C	413	 6% 84% 15%
1	D	413	 6% 82% 16%

## 2 Entry composition [i](#)

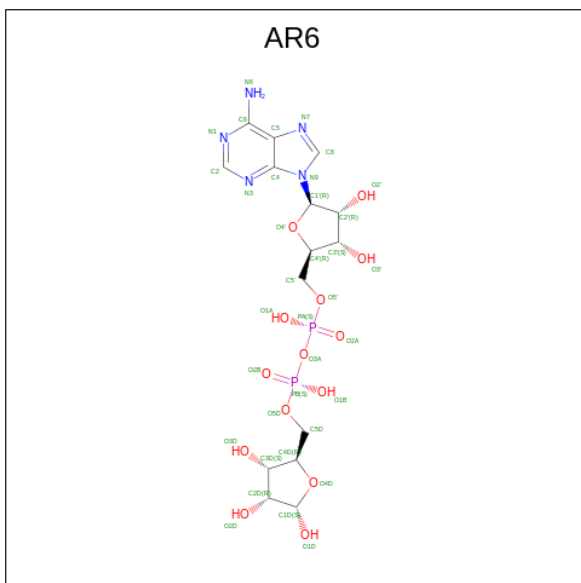
There are 3 unique types of molecules in this entry. The entry contains 14039 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Type IV secretion protein Dot.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	N	O	S				Se
1	A	413	Total	C	N	O	S	Se	0	0	0
			3305	2141	543	616	1	4			
1	B	413	Total	C	N	O	S	Se	0	0	0
			3308	2144	543	616	1	4			
1	C	412	Total	C	N	O	S	Se	0	0	0
			3297	2139	542	612		4			
1	D	410	Total	C	N	O	S	Se	0	0	0
			3280	2126	539	611		4			

- Molecule 2 is [(2R,3S,4R,5R)-5-(6-AMINOPURIN-9-YL)-3,4-DIHYDROXY-OXOLAN-2-YL]METHYL [HYDROXY-[(2R,3S,4R,5S)-3,4,5-TRIHYDROXYOXOLAN-2-YL]METHOXY]PHOSPHORYL] HYDROGEN PHOSPHATE (three-letter code: AR6) (formula: C<sub>15</sub>H<sub>23</sub>N<sub>5</sub>O<sub>14</sub>P<sub>2</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	Total	C	N	O	P	0	0
			36	15	5	14	2		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	B	1	Total	C	N	O	P	0	0
			36	15	5	14	2		
2	C	1	Total	C	N	O	P	0	0
			36	15	5	14	2		
2	D	1	Total	C	N	O	P	0	0
			36	15	5	14	2		

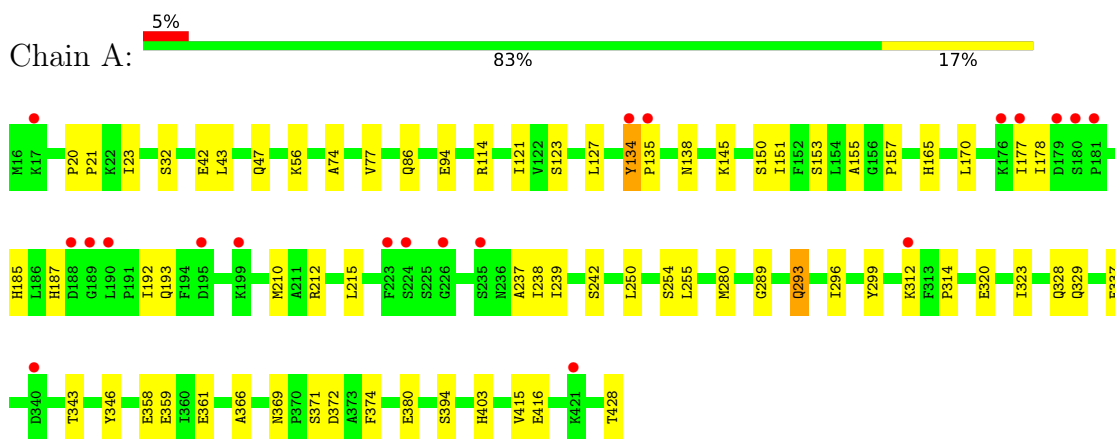
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	182	Total	O	0	0
			182	182		
3	B	200	Total	O	0	0
			200	200		
3	C	146	Total	O	0	0
			146	146		
3	D	177	Total	O	0	0
			177	177		

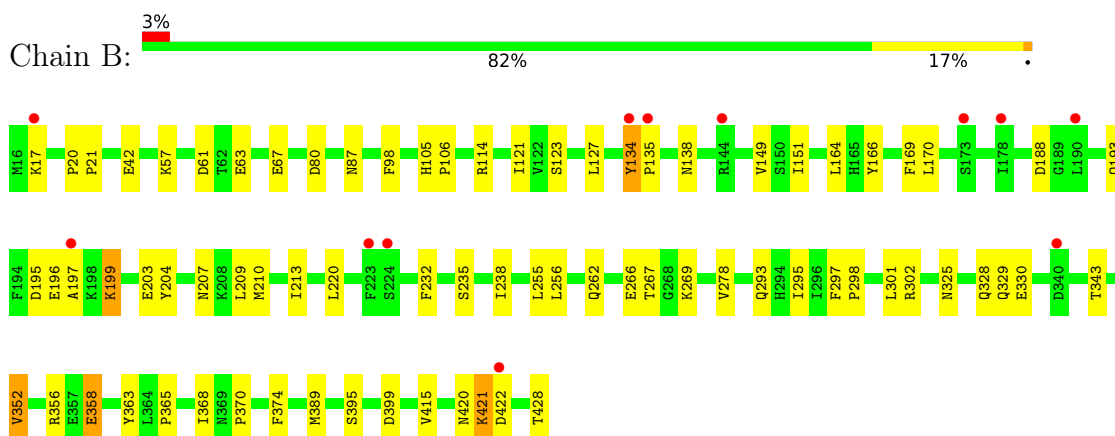
### 3 Residue-property plots [i](#)

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.

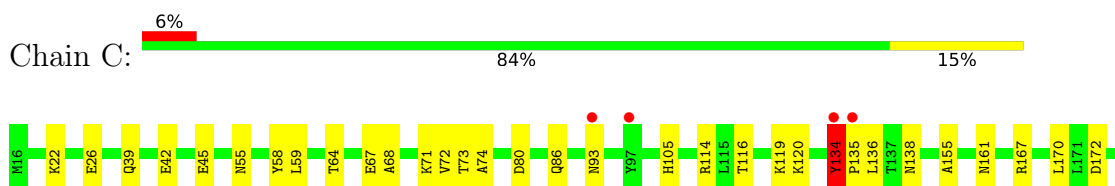
- Molecule 1: Type IV secretion protein Dot

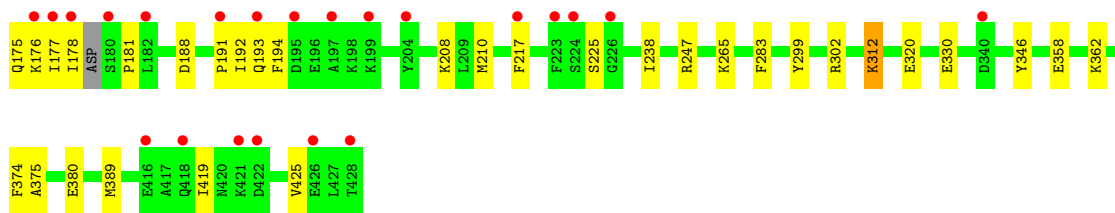


- Molecule 1: Type IV secretion protein Dot

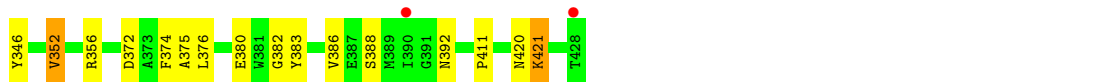
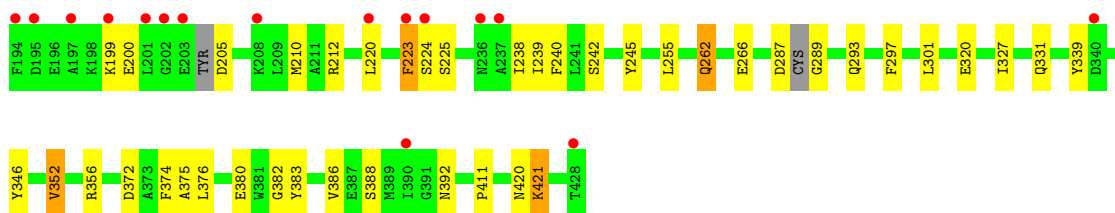
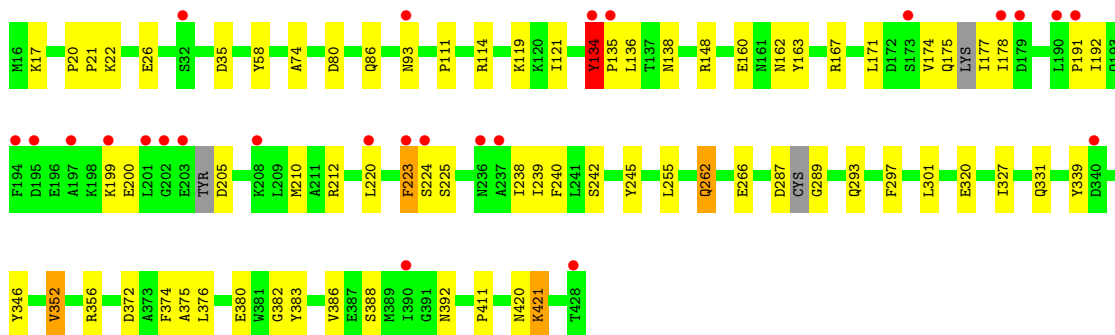
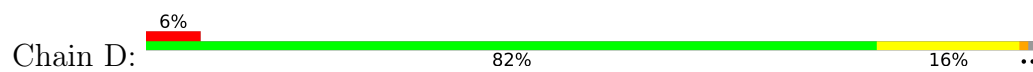


- Molecule 1: Type IV secretion protein Dot





● Molecule 1: Type IV secretion protein Dot



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	109.25Å 92.81Å 116.05Å 90.00° 105.33° 90.00°	Depositor
Resolution (Å)	53.42 – 2.32 53.42 – 2.32	Depositor EDS
% Data completeness (in resolution range)	97.5 (53.42-2.32) 97.5 (53.42-2.32)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.30 (at 2.32Å)	Xtrriage
Refinement program	PHENIX 1.11.1_2575	Depositor
R, $R_{free}$	0.186 , 0.227 0.186 , 0.227	Depositor DCC
$R_{free}$ test set	4600 reflections (4.89%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	36.3	Xtrriage
Anisotropy	0.340	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 43.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	14039	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	42.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 24.80 % 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 3.5755e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<sup>1</sup>Intensities estimated from amplitudes.

<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.

## 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: AR6

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	0.43	0/3390	0.57	0/4585
1	B	0.42	0/3394	0.59	0/4592
1	C	0.43	0/3382	0.58	0/4573
1	D	0.44	0/3362	0.59	0/4544
All	All	0.43	0/13528	0.58	0/18294

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	3305	0	3249	49	0
1	B	3308	0	3260	51	0
1	C	3297	0	3251	53	0
1	D	3280	0	3230	59	0
2	A	36	0	21	0	0
2	B	36	0	20	2	0
2	C	36	0	20	1	0
2	D	36	0	20	3	0
3	A	182	0	0	12	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	200	0	0	9	1
3	C	146	0	0	16	0
3	D	177	0	0	12	1
All	All	14039	0	13071	208	2

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 8.

All (208) 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:D:210:MSE:CE	1:D:239:ILE:HD11	1.83	1.07
1:C:177:ILE:HB	1:C:193:GLN:HG2	1.41	1.01
1:D:210:MSE:HE3	1:D:239:ILE:CD1	1.90	0.99
1:D:210:MSE:HE3	1:D:239:ILE:HD11	0.95	0.95
1:C:93:ASN:ND2	3:C:603:HOH:O	2.07	0.87
1:C:161:ASN:O	3:C:601:HOH:O	1.98	0.81
1:C:114:ARG:HD2	3:C:711:HOH:O	1.82	0.79
1:D:35:ASP:OD1	3:D:601:HOH:O	1.99	0.78
1:C:330:GLU:OE2	3:C:602:HOH:O	2.03	0.77
1:A:343:THR:OG1	3:A:602:HOH:O	2.03	0.76
1:A:328:GLN:OE1	3:A:601:HOH:O	2.02	0.76
1:B:330:GLU:OE2	3:B:602:HOH:O	2.05	0.74
1:A:185:HIS:O	3:A:603:HOH:O	2.06	0.74
1:B:235:SER:O	3:B:601:HOH:O	2.03	0.74
1:D:93:ASN:OD1	3:D:602:HOH:O	2.05	0.73
1:A:56:LYS:HD3	1:A:416:GLU:CD	2.09	0.73
1:C:312:LYS:H	1:C:312:LYS:HD3	1.51	0.72
1:B:121:ILE:HD12	1:B:255:LEU:HG	1.72	0.72
1:B:328:GLN:OE1	3:B:604:HOH:O	2.08	0.72
1:A:312:LYS:NZ	1:A:314:PRO:HA	2.05	0.72
1:D:372:ASP:O	3:D:603:HOH:O	2.06	0.72
1:B:87:ASN:O	3:B:603:HOH:O	2.07	0.72
1:C:380:GLU:OE1	3:C:604:HOH:O	2.08	0.72
1:A:250:LEU:O	1:A:254:SER:HB2	1.90	0.71
1:C:419:ILE:HG12	1:C:425:VAL:HG22	1.71	0.71
1:D:177:ILE:HG13	1:D:192:ILE:HG22	1.72	0.70
1:C:155:ALA:O	3:C:605:HOH:O	2.08	0.70
1:A:56:LYS:HD3	1:A:416:GLU:HG3	1.74	0.70
1:A:215:LEU:O	3:A:604:HOH:O	2.10	0.68
1:C:265:LYS:NZ	3:C:607:HOH:O	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:SER:O	3:A:605:HOH:O	2.12	0.68
1:C:170:LEU:O	1:C:175:GLN:NE2	2.26	0.67
1:A:56:LYS:HD3	1:A:416:GLU:CG	2.24	0.66
1:D:339:TYR:O	3:D:605:HOH:O	2.13	0.66
1:B:114:ARG:HD3	1:B:374:PHE:HB2	1.77	0.66
1:C:191:PRO:HG2	1:C:210:MSE:HE1	1.79	0.65
1:C:191:PRO:HG2	1:C:210:MSE:CE	2.27	0.65
1:A:56:LYS:CD	1:A:416:GLU:HG3	2.27	0.64
1:B:195:ASP:O	1:B:199:LYS:HE2	1.97	0.64
1:B:415:VAL:HG13	1:B:428:THR:HG23	1.81	0.63
1:C:320:GLU:HB2	1:C:346:TYR:CZ	2.33	0.63
1:B:203:GLU:OE1	1:C:302:ARG:HD3	1.99	0.62
1:D:356:ARG:NH2	3:D:615:HOH:O	2.28	0.61
1:A:210:MSE:HE2	1:A:239:ILE:HG21	1.81	0.61
1:B:135:PRO:HD2	1:B:138:ASN:HB3	1.82	0.60
1:A:121:ILE:HD12	1:A:255:LEU:HG	1.82	0.60
1:A:415:VAL:HG13	1:A:428:THR:HG23	1.84	0.60
1:A:114:ARG:HD2	3:A:750:HOH:O	2.02	0.60
1:B:42:GLU:HB3	1:B:127:LEU:HD11	1.84	0.60
1:D:114:ARG:HD3	1:D:374:PHE:HB2	1.83	0.60
1:D:171:LEU:HB2	1:D:239:ILE:CG2	2.32	0.60
1:C:362:LYS:NZ	3:C:610:HOH:O	2.32	0.59
1:B:262:GLN:NE2	1:B:266:GLU:OE2	2.35	0.59
1:B:166:TYR:CD2	1:B:170:LEU:HD13	2.37	0.59
1:C:375:ALA:O	3:C:608:HOH:O	2.16	0.59
1:B:207:ASN:HB3	1:B:209:LEU:H	1.68	0.58
1:C:181:PRO:O	3:C:609:HOH:O	2.17	0.58
1:C:358:GLU:OE2	3:C:610:HOH:O	2.17	0.57
1:D:205:ASP:OD1	1:D:212:ARG:NH1	2.37	0.57
1:D:21:PRO:HB3	1:D:86:GLN:HB3	1.87	0.57
1:A:178:ILE:HG21	1:A:187:HIS:CE1	2.40	0.57
1:B:232:PHE:HD2	1:C:330:GLU:OE1	1.86	0.57
1:B:134:TYR:HB2	1:B:389:MSE:HB2	1.86	0.56
1:C:172:ASP:HB3	1:C:238:ILE:HG22	1.87	0.56
1:A:312:LYS:HZ3	1:A:314:PRO:HA	1.70	0.56
1:D:199:LYS:N	1:D:199:LYS:HD3	2.21	0.56
1:D:121:ILE:HD12	1:D:255:LEU:HG	1.88	0.55
1:D:163:TYR:HA	1:D:167:ARG:HD2	1.89	0.55
1:B:63:GLU:O	1:B:67:GLU:HG3	2.06	0.55
1:D:383:TYR:N	3:D:607:HOH:O	2.17	0.55
1:A:380:GLU:OE2	3:A:606:HOH:O	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:174:VAL:HG22	1:D:224:SER:HA	1.89	0.54
1:D:382:GLY:O	1:D:392:ASN:ND2	2.40	0.54
1:D:171:LEU:HB2	1:D:239:ILE:HG23	1.88	0.54
1:B:114:ARG:HD2	3:B:758:HOH:O	2.08	0.54
1:D:22:LYS:NZ	1:D:26:GLU:OE2	2.40	0.54
1:C:175:GLN:HA	1:C:178:ILE:HD13	1.89	0.54
1:C:114:ARG:HD3	1:C:374:PHE:CG	2.42	0.54
1:D:175:GLN:NE2	1:D:177:ILE:O	2.35	0.54
1:B:325:ASN:OD1	3:B:605:HOH:O	2.19	0.53
1:C:188:ASP:H	1:C:247:ARG:HH12	1.56	0.52
1:B:166:TYR:HA	1:B:170:LEU:HD12	1.90	0.52
1:C:68:ALA:HB1	1:C:120:LYS:HE3	1.90	0.52
1:B:420:ASN:HB2	1:B:422:ASP:OD1	2.09	0.52
1:A:312:LYS:HZ2	1:A:314:PRO:HA	1.74	0.52
1:B:166:TYR:CE2	1:B:170:LEU:HD13	2.45	0.51
1:A:43:LEU:O	1:A:47:GLN:HB2	2.11	0.51
1:D:148:ARG:NH1	3:D:620:HOH:O	2.34	0.51
1:B:193:GLN:HB3	1:B:196:GLU:OE2	2.11	0.50
1:D:327:ILE:O	1:D:331:GLN:HG3	2.10	0.50
1:A:177:ILE:HA	1:A:192:ILE:O	2.12	0.50
1:B:232:PHE:CD2	1:C:330:GLU:OE1	2.63	0.50
1:B:267:THR:HG22	1:B:269:LYS:HD3	1.93	0.50
1:D:80:ASP:OD2	1:D:114:ARG:NH2	2.32	0.50
1:D:380:GLU:O	1:D:388:SER:HB2	2.11	0.50
1:A:74:ALA:HB2	1:A:86:GLN:HA	1.92	0.50
1:A:361:GLU:OE2	3:A:607:HOH:O	2.20	0.50
1:B:352:VAL:HG22	2:B:501:AR6:N1	2.27	0.50
1:C:71:LYS:NZ	1:C:105:HIS:O	2.30	0.50
1:C:176:LYS:O	1:C:194:PHE:N	2.44	0.49
1:D:411:PRO:O	3:D:608:HOH:O	2.19	0.49
1:D:386:VAL:HG21	2:D:501:AR6:H5'	1.94	0.49
1:D:223:PHE:CE1	1:D:225:SER:HB3	2.48	0.49
1:C:135:PRO:HD2	1:C:138:ASN:CB	2.43	0.49
1:D:375:ALA:O	3:D:603:HOH:O	2.20	0.49
1:C:167:ARG:NH1	1:C:178:ILE:HG21	2.28	0.49
1:C:134:TYR:CD1	1:C:134:TYR:C	2.86	0.48
1:A:135:PRO:HD2	1:A:138:ASN:HB3	1.95	0.48
1:A:215:LEU:HB3	3:A:604:HOH:O	2.13	0.48
1:A:358:GLU:HG3	1:A:359:GLU:N	2.28	0.48
1:A:371:SER:OG	1:A:372:ASP:N	2.46	0.47
1:D:352:VAL:HG22	2:D:501:AR6:N1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:TYR:OH	3:C:611:HOH:O	2.20	0.47
1:A:127:LEU:O	1:A:394:SER:HA	2.14	0.47
1:D:320:GLU:HB2	1:D:346:TYR:CZ	2.49	0.47
1:B:197:ALA:HB1	1:B:210:MSE:SE	2.65	0.47
1:B:297:PHE:CE2	1:B:301:LEU:HD11	2.49	0.47
1:A:155:ALA:O	3:A:608:HOH:O	2.21	0.47
1:D:134:TYR:C	1:D:134:TYR:CD1	2.86	0.47
1:D:245:TYR:OH	3:D:606:HOH:O	2.14	0.47
1:D:421:LYS:HE2	1:D:421:LYS:HB3	1.43	0.47
1:A:20:PRO:HB2	1:A:23:ILE:HD12	1.97	0.47
1:B:169:PHE:C	1:B:170:LEU:HG	2.36	0.46
1:B:256:LEU:HD21	1:B:368:ILE:HD11	1.98	0.46
1:B:213:ILE:HG12	1:B:295:ILE:HD13	1.96	0.46
1:C:67:GLU:HG2	1:C:71:LYS:HD3	1.96	0.46
1:D:74:ALA:HB2	1:D:86:GLN:HA	1.98	0.46
1:D:287:ASP:O	1:D:289:GLY:N	2.48	0.46
1:A:312:LYS:NZ	3:A:624:HOH:O	2.48	0.46
1:C:114:ARG:HD3	1:C:374:PHE:HB2	1.97	0.46
1:D:135:PRO:HD2	1:D:138:ASN:HB3	1.96	0.46
1:B:123:SER:HA	1:B:151:ILE:O	2.15	0.46
1:A:123:SER:HA	1:A:151:ILE:O	2.15	0.46
1:B:80:ASP:HB3	1:B:98:PHE:CD2	2.51	0.46
1:D:262:GLN:O	1:D:266:GLU:HG3	2.17	0.45
1:B:421:LYS:HB3	1:B:421:LYS:HE3	1.67	0.45
1:C:59:LEU:HD23	1:C:64:THR:HG22	1.99	0.45
1:A:114:ARG:HD3	1:A:374:PHE:CG	2.51	0.45
1:D:220:LEU:HD23	1:D:238:ILE:HD11	1.97	0.45
1:C:39:GLN:HB2	1:C:42:GLU:HG3	1.98	0.45
1:D:386:VAL:CG2	2:D:501:AR6:H5'	2.47	0.45
1:D:210:MSE:HE2	1:D:210:MSE:HB2	1.77	0.45
1:B:395:SER:OG	1:B:399:ASP:OD2	2.34	0.44
1:C:55:ASN:OD1	3:C:612:HOH:O	2.21	0.44
1:D:174:VAL:HG12	1:D:174:VAL:O	2.17	0.44
1:A:134:TYR:HB3	1:A:135:PRO:HD3	2.00	0.44
1:C:135:PRO:HD2	1:C:138:ASN:HB3	2.00	0.44
1:C:177:ILE:HG23	1:C:178:ILE:H	1.81	0.44
1:C:116:THR:OG1	3:C:613:HOH:O	2.21	0.44
1:A:280:MSE:SE	1:A:296:ILE:HG13	2.68	0.44
1:B:135:PRO:HG3	2:B:501:AR6:N7	2.33	0.44
1:D:160:GLU:OE1	3:D:609:HOH:O	2.21	0.44
1:D:136:LEU:HD23	1:D:136:LEU:HA	1.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:PRO:HA	1:A:165:HIS:CE1	2.52	0.44
1:A:153:SER:HA	1:A:369:ASN:HB3	2.00	0.43
1:C:299:TYR:OH	3:C:606:HOH:O	2.10	0.43
1:B:278:VAL:CG2	1:B:368:ILE:HG21	2.47	0.43
1:A:21:PRO:HB2	1:A:403:HIS:CE1	2.54	0.43
1:A:242:SER:HB2	1:A:299:TYR:CZ	2.53	0.43
1:A:150:SER:O	1:A:366:ALA:HA	2.19	0.43
1:A:56:LYS:HD2	1:A:416:GLU:HG3	2.00	0.43
1:B:204:TYR:CE2	1:C:208:LYS:HD2	2.54	0.43
1:B:298:PRO:O	1:B:302:ARG:HG3	2.19	0.43
1:B:325:ASN:O	1:B:329:GLN:HG3	2.19	0.43
1:B:57:LYS:NZ	3:B:618:HOH:O	2.51	0.43
1:C:134:TYR:CG	1:C:135:PRO:N	2.87	0.43
1:D:178:ILE:HB	1:D:192:ILE:HG23	2.01	0.43
1:C:177:ILE:HA	1:C:192:ILE:O	2.19	0.42
1:B:105:HIS:CG	1:B:106:PRO:HD2	2.54	0.42
1:C:283:PHE:CE1	2:C:501:AR6:H4D	2.55	0.42
1:D:86:GLN:HG2	1:D:376:LEU:HD11	2.02	0.42
1:A:20:PRO:HA	1:A:21:PRO:HD3	1.89	0.42
1:B:363:TYR:O	1:B:365:PRO:HD3	2.20	0.42
1:D:58:TYR:CD2	1:D:119:LYS:HG3	2.54	0.42
1:A:42:GLU:HB3	1:A:127:LEU:HD11	2.00	0.42
1:A:323:ILE:HG22	1:A:329:GLN:HG3	2.01	0.42
1:D:134:TYR:HB3	1:D:135:PRO:HD3	2.00	0.42
1:D:223:PHE:CD1	1:D:225:SER:HB3	2.55	0.42
1:B:358:GLU:HG2	3:B:769:HOH:O	2.18	0.42
1:C:74:ALA:HB2	1:C:86:GLN:HA	2.01	0.42
1:C:134:TYR:H	1:C:389:MSE:SE	2.52	0.42
1:B:134:TYR:HB3	1:B:135:PRO:HD3	2.03	0.41
1:D:240:PHE:CE2	1:D:242:SER:HA	2.55	0.41
1:A:212:ARG:HD3	1:A:237:ALA:HB3	2.03	0.41
1:A:293:GLN:CD	1:A:328:GLN:HE21	2.24	0.41
1:C:58:TYR:CD2	1:C:119:LYS:HG3	2.56	0.41
1:D:420:ASN:HB2	3:D:604:HOH:O	2.20	0.41
1:D:191:PRO:C	1:D:192:ILE:HG13	2.40	0.41
1:B:20:PRO:HA	1:B:21:PRO:HD3	1.94	0.41
1:B:278:VAL:HA	1:B:370:PRO:HB3	2.02	0.41
1:C:80:ASP:OD2	1:C:114:ARG:NH2	2.37	0.41
1:C:119:LYS:HA	3:C:699:HOH:O	2.21	0.41
1:D:191:PRO:HG2	1:D:210:MSE:SE	2.71	0.41
1:D:297:PHE:CE2	1:D:301:LEU:HD11	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:77:VAL:HG11	3:A:606:HOH:O	2.21	0.41
1:B:149:VAL:HG22	1:B:365:PRO:HB2	2.01	0.41
1:B:220:LEU:HD23	1:B:238:ILE:HD11	2.03	0.41
1:B:356:ARG:NH2	3:B:629:HOH:O	2.53	0.41
1:D:167:ARG:O	1:D:178:ILE:HG13	2.20	0.41
1:C:22:LYS:O	1:C:26:GLU:HG3	2.21	0.40
1:D:20:PRO:HA	1:D:21:PRO:HD3	1.94	0.40
1:A:170:LEU:HD22	1:A:238:ILE:HD12	2.04	0.40
1:C:188:ASP:HB3	1:C:247:ARG:HH12	1.86	0.40
1:D:111:PRO:O	1:D:114:ARG:HB2	2.22	0.40
1:A:320:GLU:HB2	1:A:346:TYR:CZ	2.56	0.40
1:B:17:LYS:HE3	1:B:17:LYS:HB3	1.88	0.40
1:C:72:VAL:HG23	1:C:73:THR:O	2.22	0.40
1:D:239:ILE:HG21	1:D:239:ILE:HD13	1.80	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:732:HOH:O	3:D:754:HOH:O[1_455]	1.85	0.35
3:B:770:HOH:O	3:B:772:HOH:O[2_655]	2.01	0.19

## 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	411/413 (100%)	395 (96%)	14 (3%)	2 (0%)	29 35
1	B	411/413 (100%)	393 (96%)	17 (4%)	1 (0%)	47 58
1	C	408/413 (99%)	386 (95%)	21 (5%)	1 (0%)	47 58
1	D	402/413 (97%)	380 (94%)	21 (5%)	1 (0%)	47 58

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	1632/1652 (99%)	1554 (95%)	73 (4%)	5 (0%)	41 50

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	134	TYR
1	B	134	TYR
1	C	134	TYR
1	A	289	GLY
1	D	134	TYR

### 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	359/356 (101%)	354 (99%)	5 (1%)	67 80
1	B	360/356 (101%)	351 (98%)	9 (2%)	47 64
1	C	358/356 (101%)	352 (98%)	6 (2%)	60 75
1	D	357/356 (100%)	348 (98%)	9 (2%)	47 64
All	All	1434/1424 (101%)	1405 (98%)	29 (2%)	55 71

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	94	GLU
1	A	145	LYS
1	A	193	GLN
1	A	293	GLN
1	A	337	GLU
1	B	61	ASP
1	B	164	LEU
1	B	188	ASP
1	B	199	LYS
1	B	293	GLN

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Mol	Chain	Res	Type
1	B	343	THR
1	B	352	VAL
1	B	358	GLU
1	B	421	LYS
1	C	45	GLU
1	C	134	TYR
1	C	136	LEU
1	C	217	PHE
1	C	225	SER
1	C	312	LYS
1	D	17	LYS
1	D	134	TYR
1	D	162	ASN
1	D	200	GLU
1	D	223	PHE
1	D	262	GLN
1	D	293	GLN
1	D	352	VAL
1	D	421	LYS

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	328	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

4 ligands are 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
2	AR6	D	501	-	34,39,39	4.24	15 (44%)	40,60,60	2.49	6 (15%)
2	AR6	C	501	-	34,39,39	4.38	15 (44%)	40,60,60	2.12	6 (15%)
2	AR6	A	501	-	34,39,39	4.45	14 (41%)	40,60,60	2.18	9 (22%)
2	AR6	B	501	-	34,39,39	4.30	14 (41%)	40,60,60	2.15	6 (15%)

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	AR6	D	501	-	-	10/18/54/54	0/4/4/4
2	AR6	C	501	-	-	3/18/54/54	0/4/4/4
2	AR6	A	501	-	-	5/18/54/54	0/4/4/4
2	AR6	B	501	-	-	3/18/54/54	0/4/4/4

All (58) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	AR6	O4'-C1'	13.72	1.60	1.41
2	C	501	AR6	O4'-C1'	12.73	1.58	1.41
2	A	501	AR6	C2'-C1'	-12.69	1.34	1.53
2	C	501	AR6	C2'-C1'	-12.57	1.34	1.53
2	B	501	AR6	O4'-C1'	12.42	1.58	1.41
2	B	501	AR6	C2'-C1'	-12.15	1.35	1.53
2	D	501	AR6	O4'-C1'	12.12	1.58	1.41
2	D	501	AR6	C2'-C1'	-11.99	1.35	1.53
2	A	501	AR6	O4D-C1D	-10.38	1.30	1.43
2	C	501	AR6	O4D-C1D	-9.96	1.31	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	501	AR6	O4D-C1D	-9.63	1.31	1.43
2	D	501	AR6	O4D-C1D	-9.06	1.32	1.43
2	C	501	AR6	C3D-C4D	-7.10	1.34	1.53
2	D	501	AR6	C3D-C4D	-7.02	1.35	1.53
2	A	501	AR6	C3D-C4D	-7.01	1.35	1.53
2	D	501	AR6	O4D-C4D	6.93	1.60	1.45
2	D	501	AR6	C3'-C4'	-6.91	1.35	1.53
2	B	501	AR6	O4D-C4D	6.86	1.60	1.45
2	A	501	AR6	O4D-C4D	6.75	1.60	1.45
2	B	501	AR6	C3D-C4D	-6.72	1.35	1.53
2	C	501	AR6	O4D-C4D	6.58	1.59	1.45
2	B	501	AR6	C3'-C4'	-6.57	1.36	1.53
2	C	501	AR6	C3'-C4'	-6.30	1.36	1.53
2	A	501	AR6	C3'-C4'	-6.21	1.37	1.53
2	C	501	AR6	C1D-C2D	4.53	1.58	1.52
2	B	501	AR6	C1D-C2D	4.16	1.57	1.52
2	B	501	AR6	O4'-C4'	4.03	1.54	1.45
2	D	501	AR6	C1D-C2D	3.98	1.57	1.52
2	A	501	AR6	C1D-C2D	3.98	1.57	1.52
2	C	501	AR6	O4'-C4'	3.80	1.53	1.45
2	D	501	AR6	O4'-C4'	3.58	1.53	1.45
2	B	501	AR6	C3'-C2'	3.45	1.62	1.53
2	A	501	AR6	O3D-C3D	3.17	1.50	1.43
2	D	501	AR6	C3'-C2'	3.11	1.61	1.53
2	A	501	AR6	O4'-C4'	2.93	1.51	1.45
2	B	501	AR6	O2D-C2D	-2.91	1.36	1.43
2	D	501	AR6	C5-C4	-2.90	1.33	1.40
2	C	501	AR6	O3D-C3D	2.90	1.49	1.43
2	C	501	AR6	C3'-C2'	2.89	1.61	1.53
2	B	501	AR6	O3D-C3D	2.87	1.49	1.43
2	C	501	AR6	C5-C4	-2.85	1.33	1.40
2	C	501	AR6	O2D-C2D	-2.77	1.36	1.43
2	A	501	AR6	C3'-C2'	2.76	1.60	1.53
2	C	501	AR6	C2-N3	2.72	1.36	1.32
2	D	501	AR6	O2D-C2D	-2.71	1.36	1.43
2	B	501	AR6	C5-C4	-2.68	1.33	1.40
2	D	501	AR6	C2-N3	2.62	1.36	1.32
2	B	501	AR6	C6-N6	2.56	1.43	1.34
2	D	501	AR6	O3D-C3D	2.52	1.48	1.43
2	A	501	AR6	C6-N6	2.50	1.43	1.34
2	A	501	AR6	C5-C4	-2.46	1.34	1.40
2	D	501	AR6	O5'-C5'	-2.45	1.35	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	501	AR6	C6-N6	2.35	1.42	1.34
2	A	501	AR6	O2D-C2D	-2.28	1.37	1.43
2	C	501	AR6	C6-N6	2.21	1.42	1.34
2	C	501	AR6	PB-O5D	2.11	1.67	1.59
2	B	501	AR6	C2-N3	2.10	1.35	1.32
2	A	501	AR6	C2-N3	2.08	1.35	1.32

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	501	AR6	C1'-N9-C4	-10.52	108.16	126.64
2	B	501	AR6	C1'-N9-C4	-10.25	108.64	126.64
2	C	501	AR6	C1'-N9-C4	-10.01	109.06	126.64
2	A	501	AR6	C1'-N9-C4	-9.83	109.37	126.64
2	D	501	AR6	N3-C2-N1	-5.67	119.82	128.68
2	C	501	AR6	N3-C2-N1	-5.46	120.14	128.68
2	B	501	AR6	N3-C2-N1	-5.14	120.65	128.68
2	D	501	AR6	C5'-C4'-C3'	-5.13	95.94	115.18
2	A	501	AR6	N3-C2-N1	-5.13	120.66	128.68
2	D	501	AR6	C5-C6-N6	4.53	127.24	120.35
2	D	501	AR6	N6-C6-N1	-3.92	110.45	118.57
2	B	501	AR6	C5-C6-N6	3.64	125.89	120.35
2	A	501	AR6	C5-C6-N6	3.48	125.64	120.35
2	A	501	AR6	C3'-C2'-C1'	3.17	105.75	100.98
2	B	501	AR6	C3'-C2'-C1'	3.08	105.62	100.98
2	D	501	AR6	C3'-C2'-C1'	3.06	105.59	100.98
2	A	501	AR6	O2'-C2'-C3'	-3.06	101.92	111.82
2	C	501	AR6	C3'-C2'-C1'	2.91	105.36	100.98
2	C	501	AR6	C5-C6-N6	2.75	124.53	120.35
2	A	501	AR6	N6-C6-N1	-2.54	113.30	118.57
2	B	501	AR6	N6-C6-N1	-2.48	113.44	118.57
2	C	501	AR6	N6-C6-N1	-2.36	113.67	118.57
2	A	501	AR6	O4'-C4'-C3'	-2.23	100.71	105.11
2	B	501	AR6	C1D-C2D-C3D	-2.18	99.57	102.30
2	C	501	AR6	O2'-C2'-C3'	-2.15	104.86	111.82
2	A	501	AR6	O4'-C1'-C2'	-2.08	103.89	106.93
2	A	501	AR6	O3'-C3'-C2'	-2.05	105.19	111.82

There are no chirality outliers.

All (21) torsion outliers are listed below:

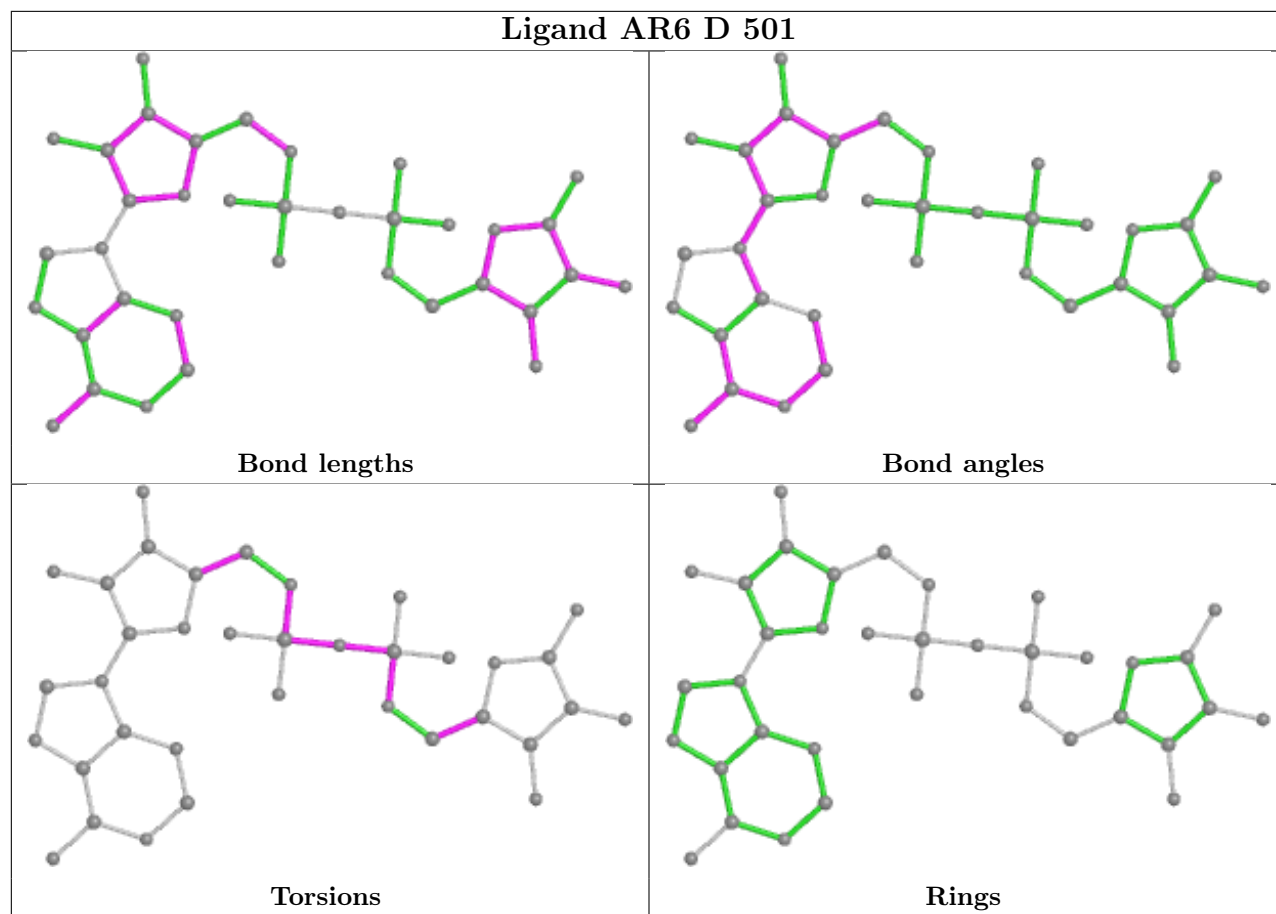
Mol	Chain	Res	Type	Atoms
2	A	501	AR6	C5'-O5'-PA-O1A
2	A	501	AR6	C5'-O5'-PA-O3A
2	D	501	AR6	C5'-O5'-PA-O2A
2	D	501	AR6	C3'-C4'-C5'-O5'
2	D	501	AR6	O4'-C4'-C5'-O5'
2	D	501	AR6	C3D-C4D-C5D-O5D
2	D	501	AR6	O4D-C4D-C5D-O5D
2	C	501	AR6	C5'-O5'-PA-O3A
2	A	501	AR6	PB-O3A-PA-O1A
2	C	501	AR6	PB-O3A-PA-O1A
2	D	501	AR6	PA-O3A-PB-O2B
2	A	501	AR6	C5'-O5'-PA-O2A
2	C	501	AR6	C5'-O5'-PA-O1A
2	B	501	AR6	PB-O3A-PA-O1A
2	B	501	AR6	PA-O3A-PB-O2B
2	B	501	AR6	PB-O3A-PA-O2A
2	D	501	AR6	PB-O3A-PA-O2A
2	D	501	AR6	PA-O3A-PB-O1B
2	A	501	AR6	PB-O3A-PA-O2A
2	D	501	AR6	PB-O3A-PA-O1A
2	D	501	AR6	C5D-O5D-PB-O2B

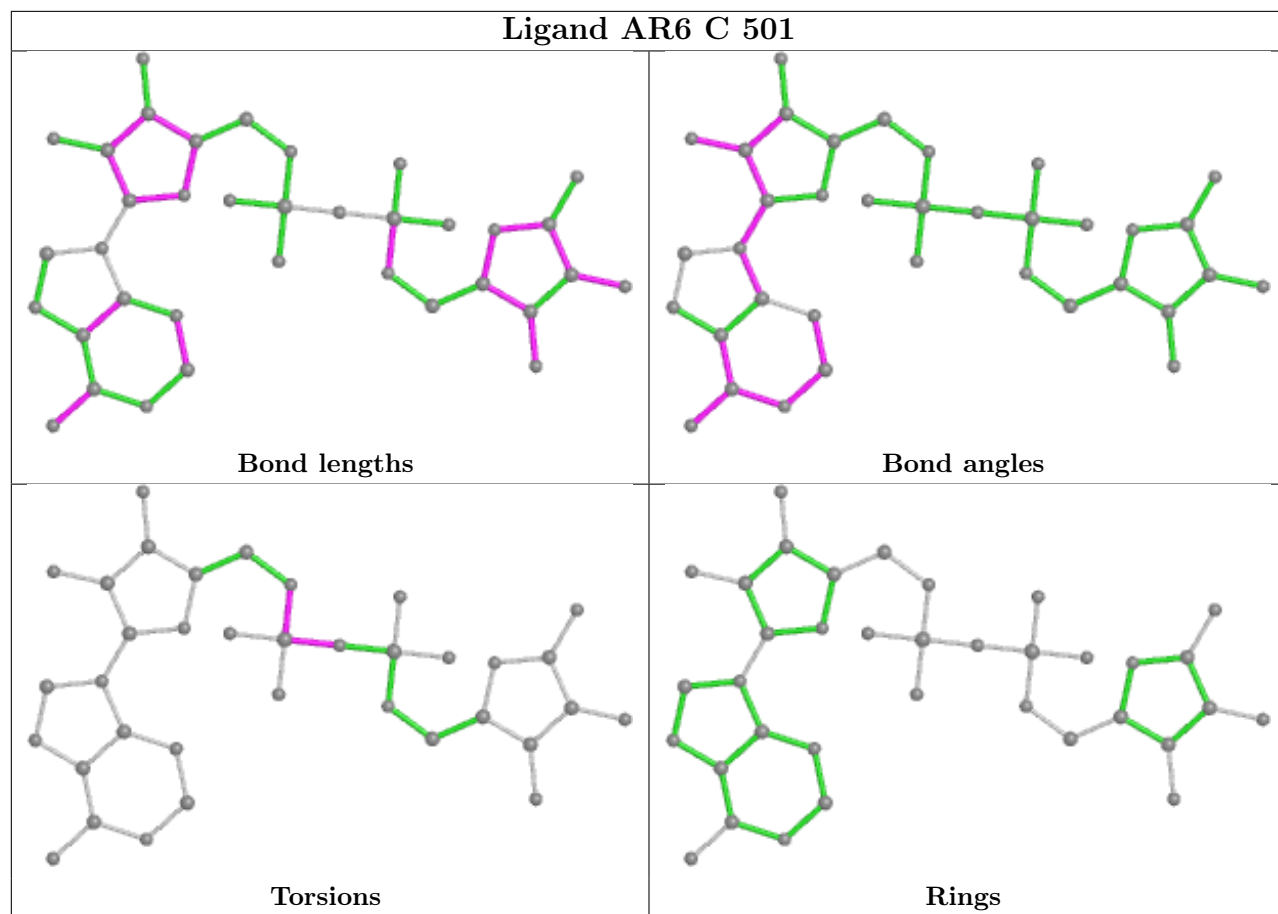
There are no ring outliers.

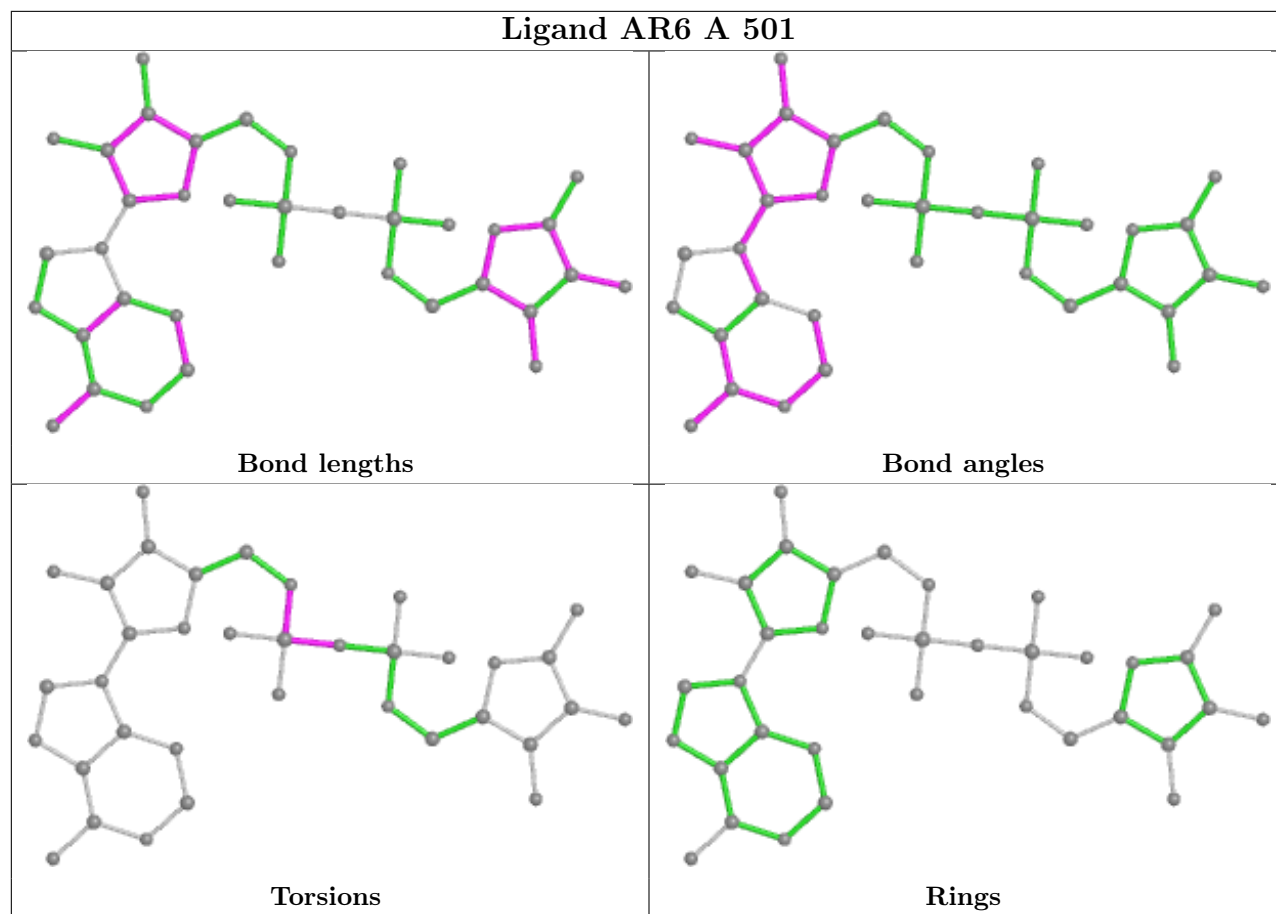
3 monomers are involved in 6 short contacts:

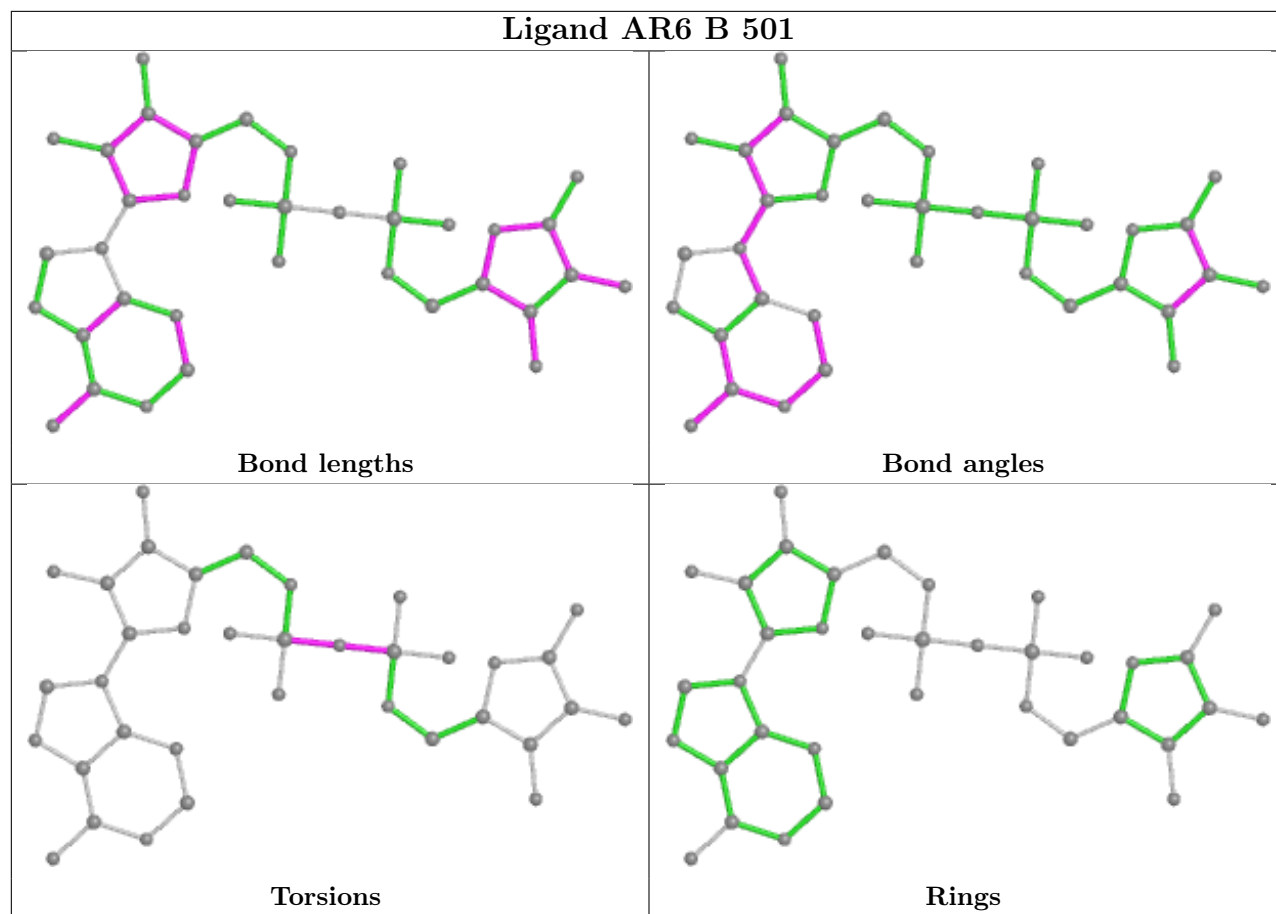
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	501	AR6	3	0
2	C	501	AR6	1	0
2	B	501	AR6	2	0

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 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	408/413 (98%)	0.13	20 (4%) 29 37	28, 39, 60, 73	0
1	B	408/413 (98%)	0.12	12 (2%) 51 59	29, 39, 59, 71	0
1	C	407/413 (98%)	0.42	26 (6%) 19 25	25, 41, 67, 85	0
1	D	405/413 (98%)	0.37	25 (6%) 20 26	24, 38, 68, 84	0
All	All	1628/1652 (98%)	0.26	83 (5%) 28 35	24, 39, 64, 85	0

All (83) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	178	ILE	5.3
1	C	177	ILE	5.3
1	D	178	ILE	5.1
1	C	340	ASP	4.7
1	C	195	ASP	4.5
1	C	191	PRO	4.4
1	C	199	LYS	4.2
1	D	134	TYR	4.2
1	D	197	ALA	4.2
1	D	223	PHE	4.1
1	D	195	ASP	4.0
1	C	204	TYR	4.0
1	C	197	ALA	3.8
1	B	224	SER	3.6
1	D	191	PRO	3.6
1	C	182	LEU	3.5
1	D	194	PHE	3.5
1	C	422	ASP	3.4
1	C	178	ILE	3.2
1	A	421	LYS	3.2
1	D	201	LEU	3.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	C	176	LYS	3.2
1	D	173	SER	3.2
1	B	144	ARG	3.2
1	D	224	SER	3.1
1	D	237	ALA	3.1
1	C	428	THR	3.1
1	D	135	PRO	3.0
1	A	17	LYS	3.0
1	D	190	LEU	3.0
1	C	226	GLY	3.0
1	D	202	GLY	3.0
1	C	416	GLU	3.0
1	A	235	SER	3.0
1	D	199	LYS	2.9
1	B	190	LEU	2.9
1	D	340	ASP	2.9
1	C	421	LYS	2.8
1	A	340	ASP	2.8
1	C	223	PHE	2.8
1	C	134	TYR	2.8
1	D	220	LEU	2.7
1	A	224	SER	2.7
1	B	223	PHE	2.6
1	C	93	ASN	2.6
1	B	17	LYS	2.5
1	C	135	PRO	2.5
1	A	176	LYS	2.4
1	B	340	ASP	2.4
1	A	223	PHE	2.4
1	C	426	GLU	2.4
1	A	195	ASP	2.4
1	B	197	ALA	2.4
1	A	135	PRO	2.3
1	B	135	PRO	2.3
1	C	217	PHE	2.3
1	C	193	GLN	2.3
1	D	32	SER	2.3
1	A	177	ILE	2.3
1	D	93	ASN	2.3
1	A	226	GLY	2.3
1	C	418	GLN	2.3
1	A	179	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
1	C	224	SER	2.2
1	D	236	ASN	2.2
1	D	203	GLU	2.2
1	B	134	TYR	2.2
1	C	97	TYR	2.2
1	A	180	SER	2.2
1	D	179	ASP	2.2
1	B	422	ASP	2.2
1	C	180	SER	2.1
1	A	134	TYR	2.1
1	A	190	LEU	2.1
1	A	199	LYS	2.1
1	D	390	ILE	2.1
1	D	428	THR	2.1
1	B	173	SER	2.1
1	A	188	ASP	2.1
1	D	208	LYS	2.1
1	A	181	PRO	2.0
1	A	312	LYS	2.0
1	A	189	GLY	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 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<sup>th</sup> 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.

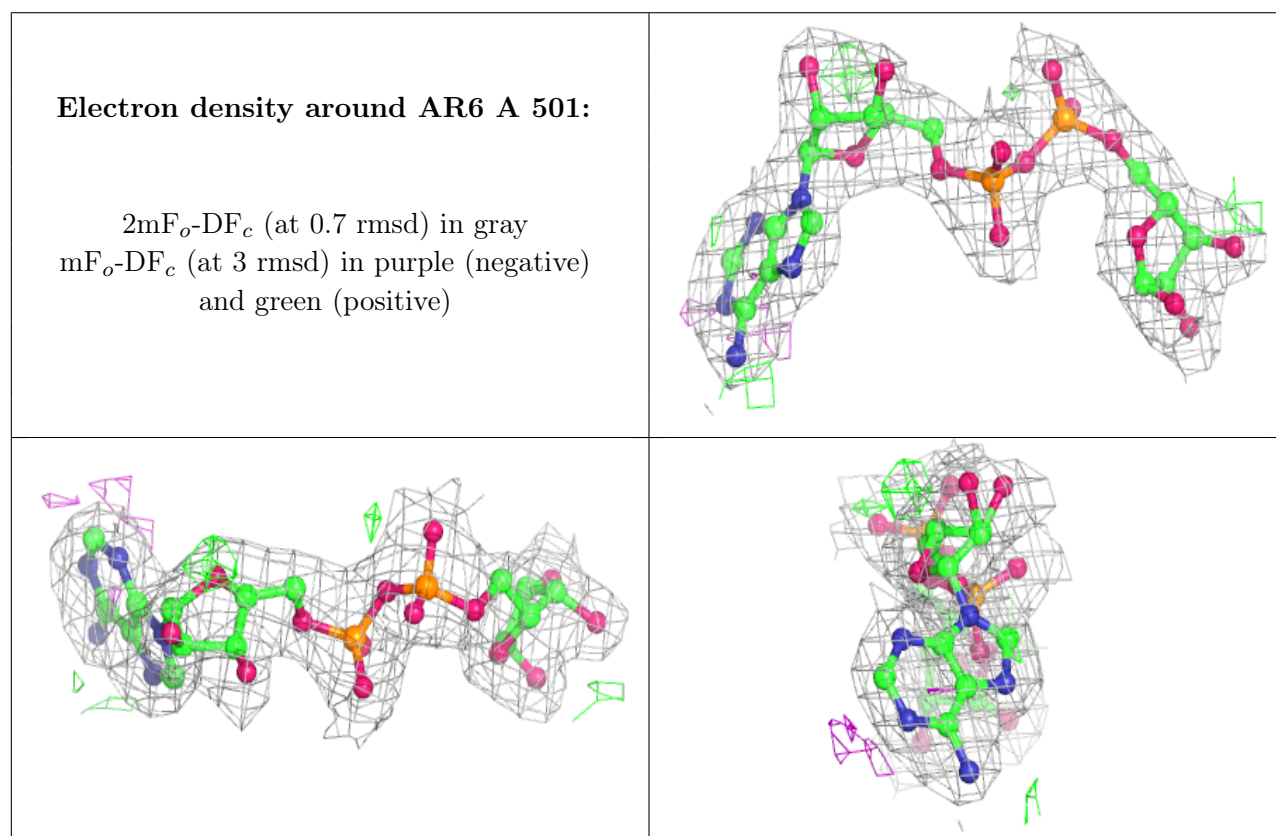
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
2	AR6	A	501	36/36	0.98	0.14	27,31,35,38	0
2	AR6	B	501	36/36	0.98	0.15	26,31,35,37	0
2	AR6	C	501	36/36	0.98	0.14	21,27,33,36	0

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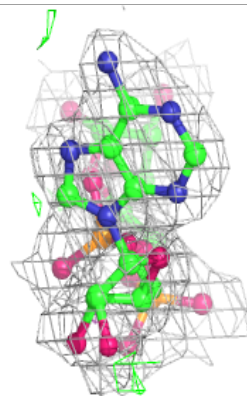
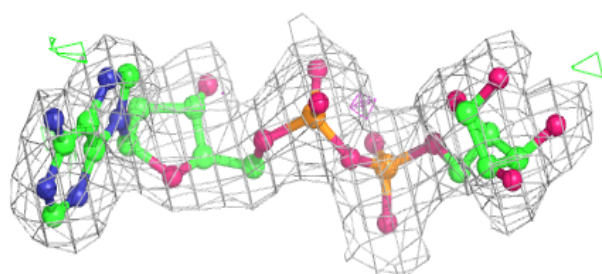
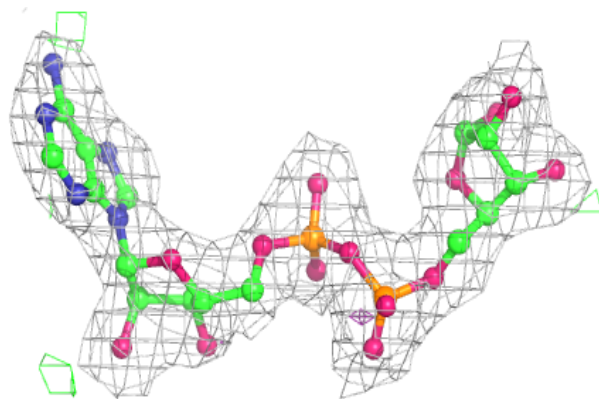
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	AR6	D	501	36/36	0.98	0.15	23,28,33,36	0

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.

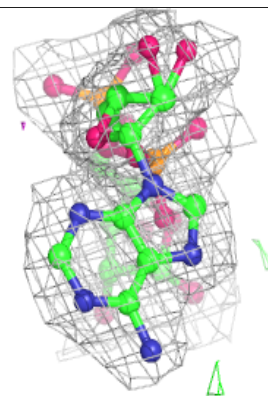
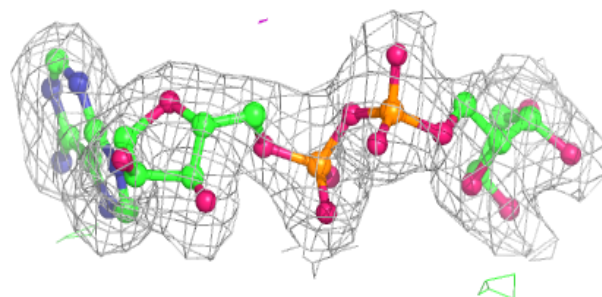
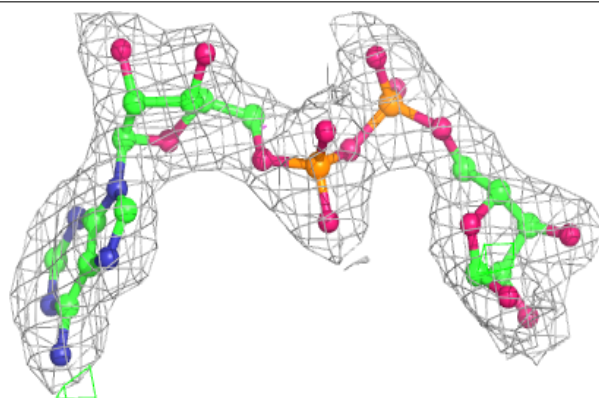


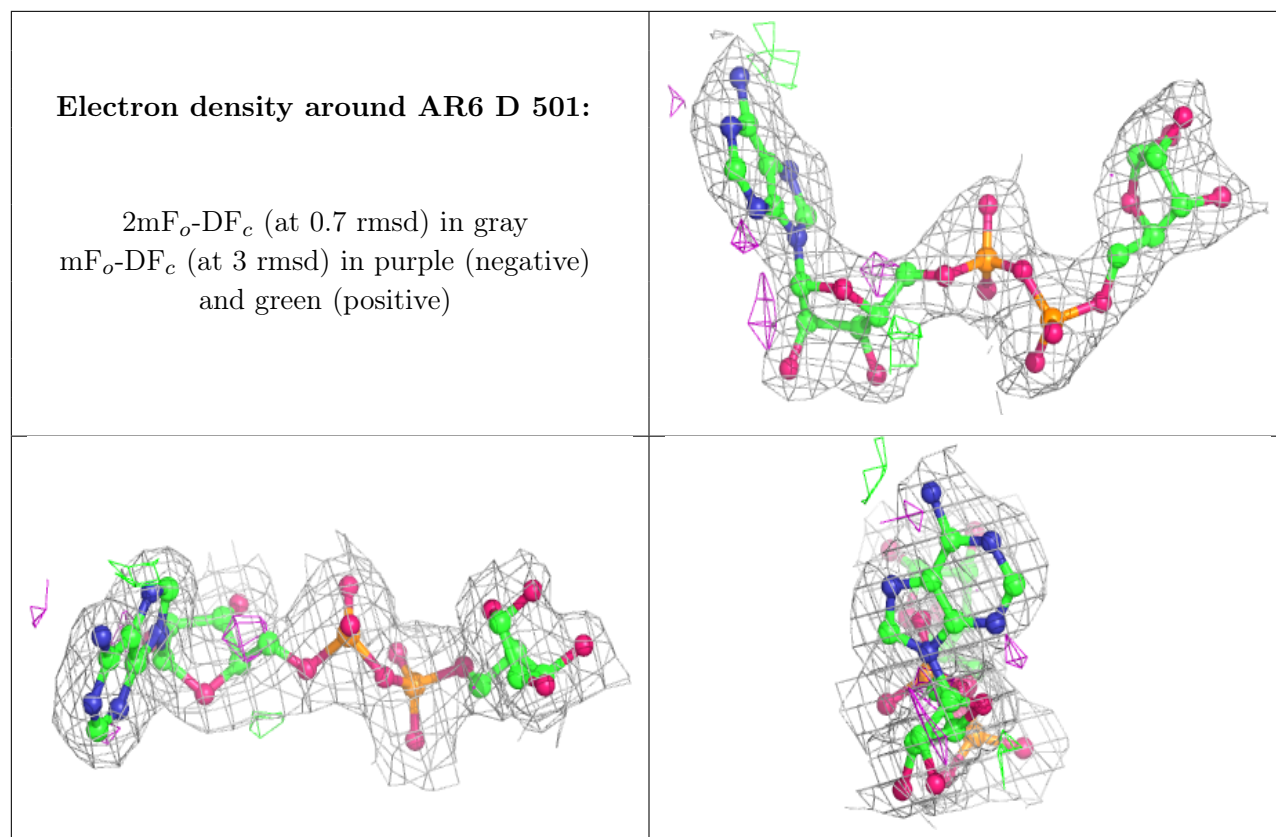
**Electron density around AR6 B 501:**

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

**Electron density around AR6 C 501:**

$2mF_o-DF_c$  (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.