W O R L D W I D E

wwPDB

P R O T E I N   D A T A   B A N K

wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 21, 2020 – 03:16 PM BST

PDB ID	:	6QUZ
Title	:	Structure of ATPgS-bound outward-facing TM287/288 in complex with sybody Sb_TM35
Authors	:	Hutter, C.A.J.; Huerlimann, L.M.; Zimmermann, I.; Egloff, P.; Seeger, M.A.
Deposited on	:	2019-03-01
Resolution	:	3.21 Å(reported)

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	:	2.13.1
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)	:	2.13.1

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 3.21 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.
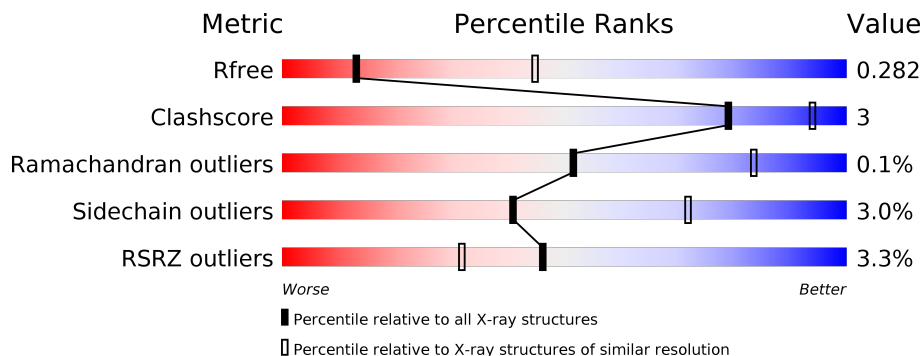
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1335 (3.24-3.20)
Clashscore	141614	1460 (3.24-3.20)
Ramachandran outliers	138981	1437 (3.24-3.20)
Sidechain outliers	138945	1436 (3.24-3.20)
RSRZ outliers	127900	1291 (3.24-3.20)

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 on 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	A	587	
1	C	587	
2	B	599	
2	D	599	
3	E	128	
3	F	128	

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 20098 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 ABC transporter, ATP-binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	568	Total 4467	C 2880	N 768	O 800	S 19	0	0	0
1	C	569	Total 4473	C 2883	N 769	O 802	S 19	0	0	0

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-9	GLY	-	expression tag	UNP Q9WYC3
A	-8	PRO	-	expression tag	UNP Q9WYC3
A	-7	SER	-	expression tag	UNP Q9WYC3
A	-6	GLY	-	expression tag	UNP Q9WYC3
A	-5	SER	-	expression tag	UNP Q9WYC3
A	-4	GLY	-	expression tag	UNP Q9WYC3
A	-3	GLY	-	expression tag	UNP Q9WYC3
A	-2	GLY	-	expression tag	UNP Q9WYC3
A	-1	GLY	-	expression tag	UNP Q9WYC3
A	0	GLY	-	expression tag	UNP Q9WYC3
A	1	SER	-	expression tag	UNP Q9WYC3
C	-9	GLY	-	expression tag	UNP Q9WYC3
C	-8	PRO	-	expression tag	UNP Q9WYC3
C	-7	SER	-	expression tag	UNP Q9WYC3
C	-6	GLY	-	expression tag	UNP Q9WYC3
C	-5	SER	-	expression tag	UNP Q9WYC3
C	-4	GLY	-	expression tag	UNP Q9WYC3
C	-3	GLY	-	expression tag	UNP Q9WYC3
C	-2	GLY	-	expression tag	UNP Q9WYC3
C	-1	GLY	-	expression tag	UNP Q9WYC3
C	0	GLY	-	expression tag	UNP Q9WYC3
C	1	SER	-	expression tag	UNP Q9WYC3

- Molecule 2 is a protein called Uncharacterized ABC transporter ATP-binding protein TM_0288.

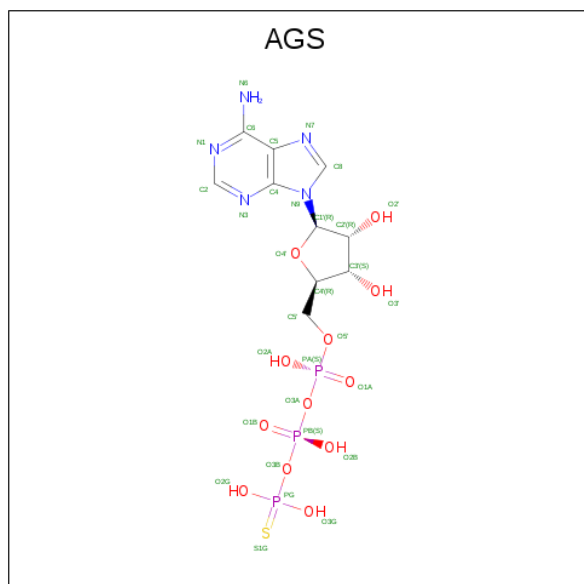| Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	570	Total	C	N	O	S	0	0	0
			4544	2937	766	827	14			
2	D	574	Total	C	N	O	S	0	0	0
			4576	2958	772	832	14			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	517	ALA	GLU	engineered mutation	UNP Q9WYC4
B	599	ALA	-	expression tag	UNP Q9WYC4
D	517	ALA	GLU	engineered mutation	UNP Q9WYC4
D	599	ALA	-	expression tag	UNP Q9WYC4

- Molecule 3 is a protein called Sb_TM35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	E	124	Total	C	N	O	S	0	0	0
			955	603	163	186	3			
3	F	124	Total	C	N	O	S	0	0	0
			955	603	163	186	3			

- Molecule 4 is PHOSPHOTHIOPHOSPHORIC ACID-ADENYLATE ESTER (three-letter code: AGS) (formula: $C_{10}H_{16}N_5O_{12}P_3S$).

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
4	A	1	Total	C	N	O	P	S	0	0
			31	10	5	12	3	1		

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
4	B	1	Total	C	N	O	P	S	0	0
			31	10	5	12	3	1		
4	C	1	Total	C	N	O	P	S	0	0
			31	10	5	12	3	1		
4	D	1	Total	C	N	O	P	S	0	0
			31	10	5	12	3	1		

- Molecule 5 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

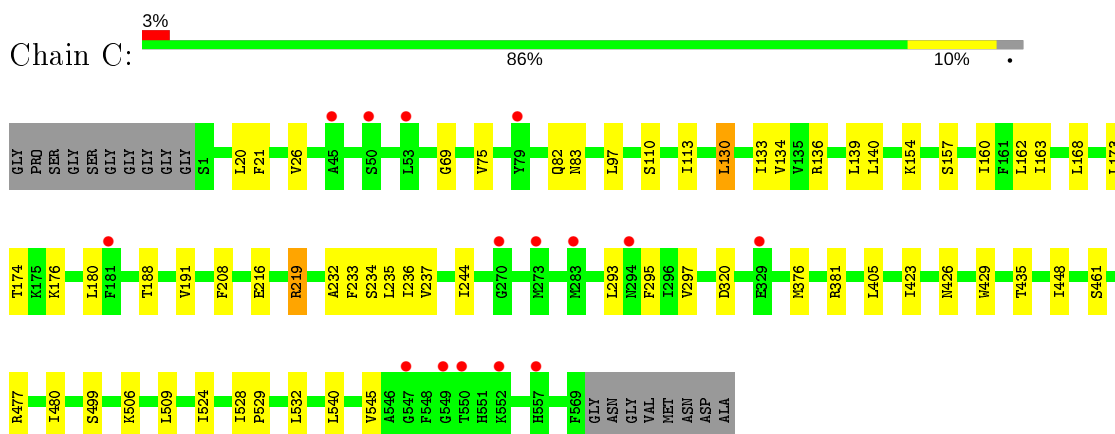| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total	Mg	0	0
			1	1		
5	A	1	Total	Mg	0	0
			1	1		
5	D	1	Total	Mg	0	0
			1	1		
5	C	1	Total	Mg	0	0
			1	1		

3 Residue-property plots ⓘ

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.
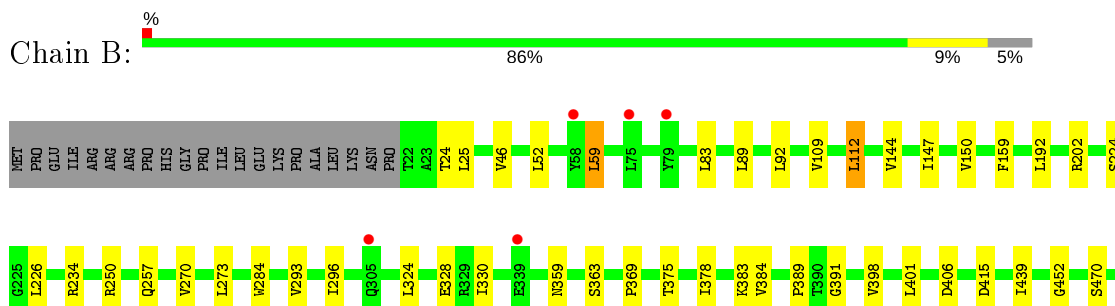
- Molecule 1: ABC transporter, ATP-binding protein
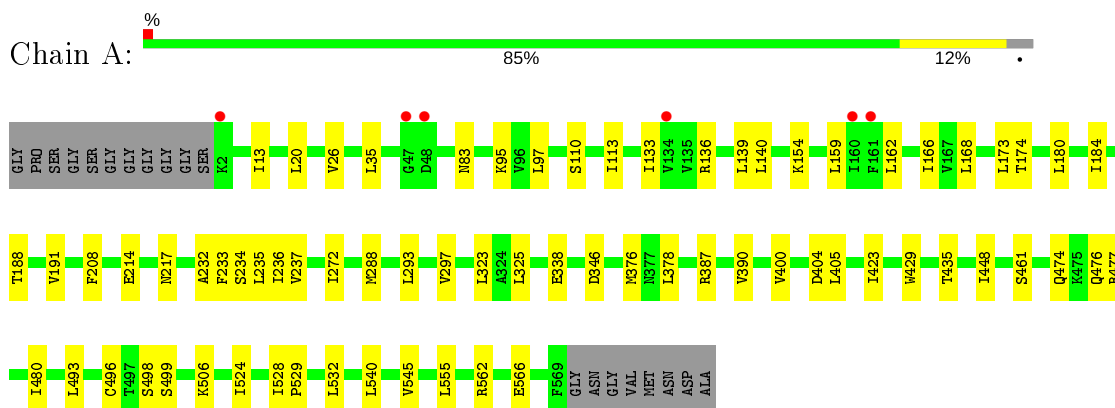
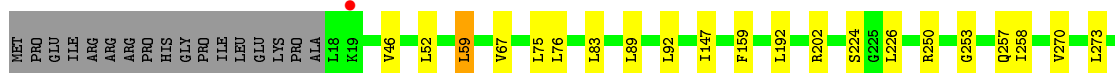- Molecule 1: ABC transporter, ATP-binding protein

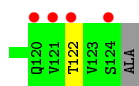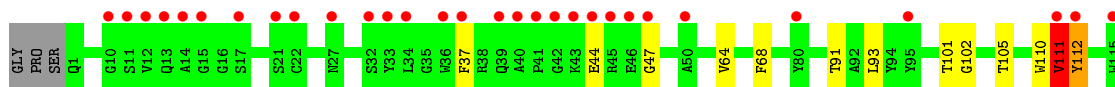- Molecule 2: Uncharacterized ABC transporter ATP-binding protein TM_0288

F473 T486 D487 N488 L500 I514 L515 D516 I546 L558 F582 Y591 GLY LEU VAL VAL GLU LYS GLU ALA

• Molecule 2: Uncharacterized ABC transporter ATP-binding protein TM_0288

Chain D:

86%　　9%

MET PRO GLU ILE ARG ARG PRO HIS GLY PRO ILE LEU GLU LYS PRO ALA L18 K19 V46 L52 L59 V67 L75 L76 L83 L89 L92 I147 F159 L192 R202 S224 G225 L226 R250 G253 Q257 I258 V270 L273

W284 V293 I296 Q321 L324 L348 V351 E354 I355 N359 S363 Y364 V370 T375 I378 V384 P389 V398 L401 D415 S430 V445 G452 L467 S470 F473 T486 D487 N488 L500 I514 L515 D516

L537 I546 L558 F582 Y591 GLY LEU VAL VAL GLU LYS GLU ALA

• Molecule 3: Sb_TM35

Chain E:

27%

86%　　9%

GLY PRO SER Q1 G10 S11 V12 Q13 A14 G15 C16 S17 S21 C22 N27 S32 Y33 L34 G35 W36 F37 R38 Q39 A40 P41 G42 K43 E44 R45 E46 G47 A50 V64 F68 Y80 T91 A92 L93 Y94 Y95 T101 G102 T105 W110 V111 Y112 W115

Q120 V121 T122 V123 S124 ALA

• Molecule 3: Sb_TM35

Chain F:

18%

91%　　6%

GLY PRO SER Q1 A14 L34 G35 W36 F37 R38 Q39 A40 P41 G42 K43 E44 R45 E46 G47 V48 A49 Y60 A61 D62 S63 V64 F68 T69 L72 D73 N74 A75 M83 D90 T91 Y95 W110 V111 T122 V123 S124 ALA
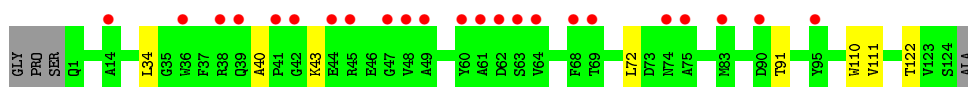
4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	165.34Å 77.11Å 207.01Å 90.00° 112.49° 90.00°	Depositor
Resolution (Å)	48.84 – 3.21 49.14 – 3.20	Depositor EDS
% Data completeness (in resolution range)	79.8 (48.84-3.21) 79.8 (49.14-3.20)	Depositor EDS
R_{merge}	0.25	Depositor
R_{sym}	(Not available)	Depositor
$<I/\sigma(I)>$ [1]	3.62 (at 3.19Å)	Xtriage
Refinement program	BUSTER 2.10.3	Depositor
R, R_{free}	0.243 , 0.263 0.259 , 0.282	Depositor DCC
R_{free} test set	3232 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å^2)	50.5	Xtriage
Anisotropy	0.043	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.25 , 25.4	EDS
L-test for twinning[2]	$<|L|> = 0.46, <L^2> = 0.28$	Xtriage
Estimated twinning fraction	0.028 for h,-k,-h-l	Xtriage
F_o,F_c correlation	0.83	EDS
Total number of atoms	20098	wwPDB-VP
Average B, all atoms (Å^2)	72.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.58% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.

[2]Theoretical values of $<|L|>$, $<L^2>$ 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, AGS

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	0.41	0/4542	0.59	0/6143
1	C	0.41	0/4548	0.59	0/6151
2	B	0.40	0/4622	0.58	0/6249
2	D	0.40	0/4655	0.58	0/6294
3	E	0.37	0/981	0.54	0/1337
3	F	0.36	0/981	0.52	0/1337
All	All	0.40	0/20329	0.58	0/27511

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	4467	0	4665	30	0
1	C	4473	0	4673	27	0
2	B	4544	0	4724	28	0
2	D	4576	0	4761	30	0
3	E	955	0	895	8	0
3	F	955	0	895	5	0
4	A	31	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	31	0	12	0	0
4	C	31	0	12	0	0
4	D	31	0	12	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
All	All	20098	0	20661	115	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 3.

The worst 5 of 115 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:284:TRP:HH2	3:F:110:TRP:HA	1.49	0.76
2:B:46:VAL:HG11	2:B:159:PHE:HB3	1.72	0.71
2:D:46:VAL:HG11	2:D:159:PHE:HB3	1.72	0.71
3:E:102:GLY:H	3:E:111:VAL:HG11	1.55	0.71
1:A:562:ARG:O	1:A:566:GLU:HG2	1.90	0.70

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	566/587 (96%)	550 (97%)	16 (3%)	0	100	100
1	C	567/587 (97%)	551 (97%)	16 (3%)	0	100	100
2	B	568/599 (95%)	551 (97%)	17 (3%)	0	100	100
2	D	572/599 (96%)	557 (97%)	15 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	E	122/128 (95%)	108 (88%)	12 (10%)	2 (2%)	9	42
3	F	122/128 (95%)	113 (93%)	9 (7%)	0	100	100
All	All	2517/2628 (96%)	2430 (96%)	85 (3%)	2 (0%)	51	83

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	E	111	VAL
3	E	44	GLU

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	495/504 (98%)	474 (96%)	21 (4%)	30	64
1	C	496/504 (98%)	477 (96%)	19 (4%)	33	66
2	B	507/532 (95%)	497 (98%)	10 (2%)	55	79
2	D	511/532 (96%)	499 (98%)	12 (2%)	50	77
3	E	97/99 (98%)	94 (97%)	3 (3%)	40	71
3	F	97/99 (98%)	96 (99%)	1 (1%)	76	89
All	All	2203/2270 (97%)	2137 (97%)	66 (3%)	41	72

5 of 66 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	415	ASP
1	C	162	LEU
2	D	488	ASN
2	B	500	LEU
1	C	139	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 8 such sidechains are listed below:

Mol	Chain	Res	Type
2	B	142	ASN
2	D	321	GLN
2	D	133	HIS
1	A	474	GLN
1	C	83	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 8 ligands modelled in this entry, 4 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	#$|Z| > 2$
4	AGS	B	600	5	26,33,33	0.59	0	26,52,52	0.67	1 (3%)
4	AGS	A	600	5	26,33,33	0.61	0	26,52,52	0.71	1 (3%)
4	AGS	D	600	5	26,33,33	0.61	0	26,52,52	0.70	1 (3%)
4	AGS	C	600	5	26,33,33	0.59	0	26,52,52	0.68	1 (3%)

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
4	AGS	B	600	5	-	3/17/38/38	0/3/3/3
4	AGS	A	600	5	-	5/17/38/38	0/3/3/3
4	AGS	D	600	5	-	3/17/38/38	0/3/3/3
4	AGS	C	600	5	-	3/17/38/38	0/3/3/3

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	600	AGS	C5-C6-N6	2.30	123.84	120.35
4	C	600	AGS	C5-C6-N6	2.26	123.79	120.35
4	A	600	AGS	C5-C6-N6	2.25	123.77	120.35
4	B	600	AGS	C5-C6-N6	2.24	123.75	120.35

There are no chirality outliers.

5 of 14 torsion outliers are listed below:

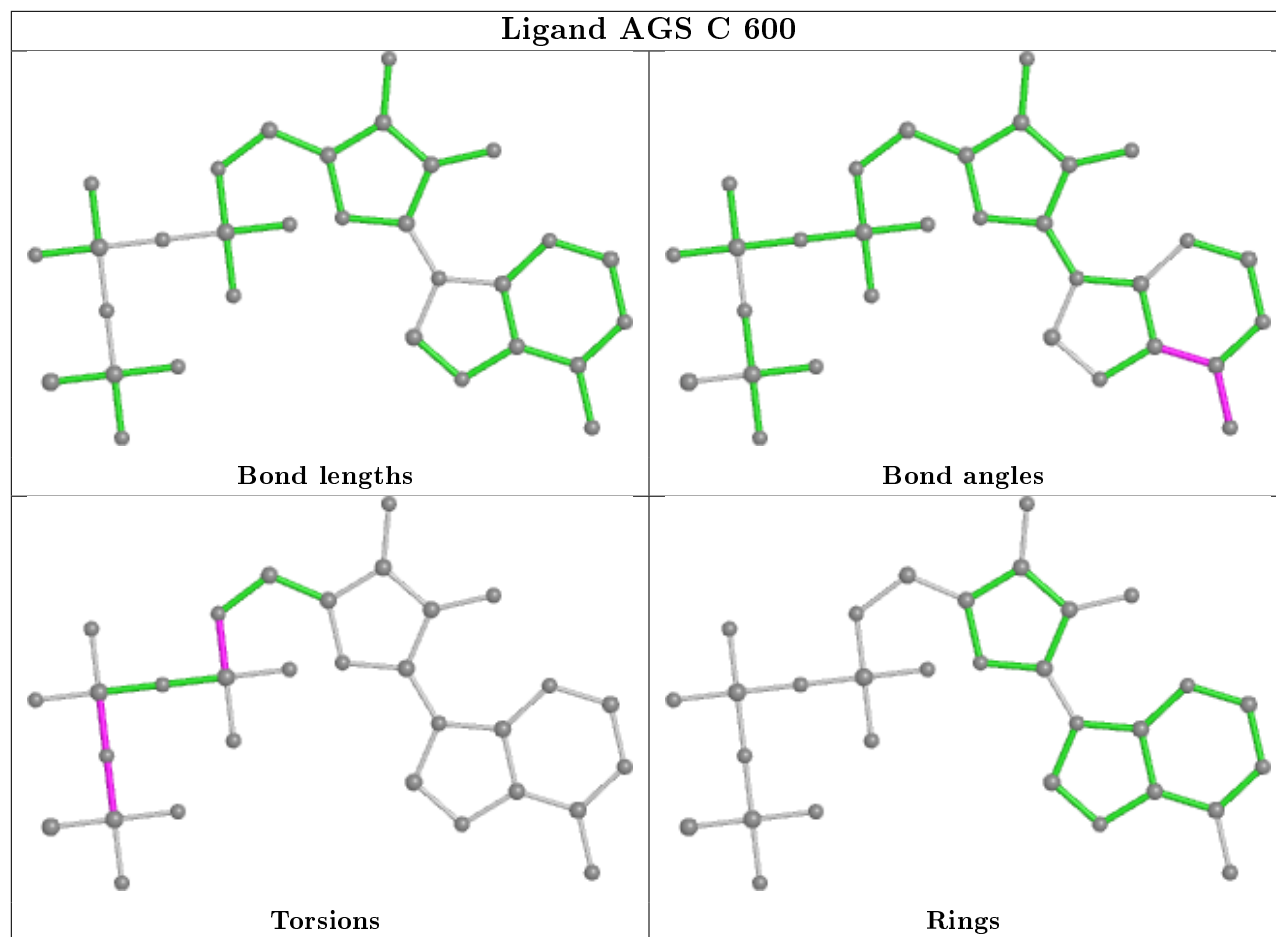| Mol	Chain	Res	Type	Atoms
4	C	600	AGS	PB-O3B-PG-O3G
4	A	600	AGS	C5'-O5'-PA-O1A
4	D	600	AGS	PA-O3A-PB-O1B
4	B	600	AGS	PA-O3A-PB-O1B
4	C	600	AGS	PG-O3B-PB-O2B

There are no ring outliers.

No monomer is involved in short contacts.

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 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.

Ligand AGS B 600

Bond lengths

Bond angles

Torsions

Rings

Ligand AGS A 600

Bond lengths

Bond angles

Torsions

Rings

Ligand AGS D 600

Bond lengths

Bond angles

Torsions

Rings

Ligand AGS C 600

Bond lengths

Bond angles

Torsions

Rings
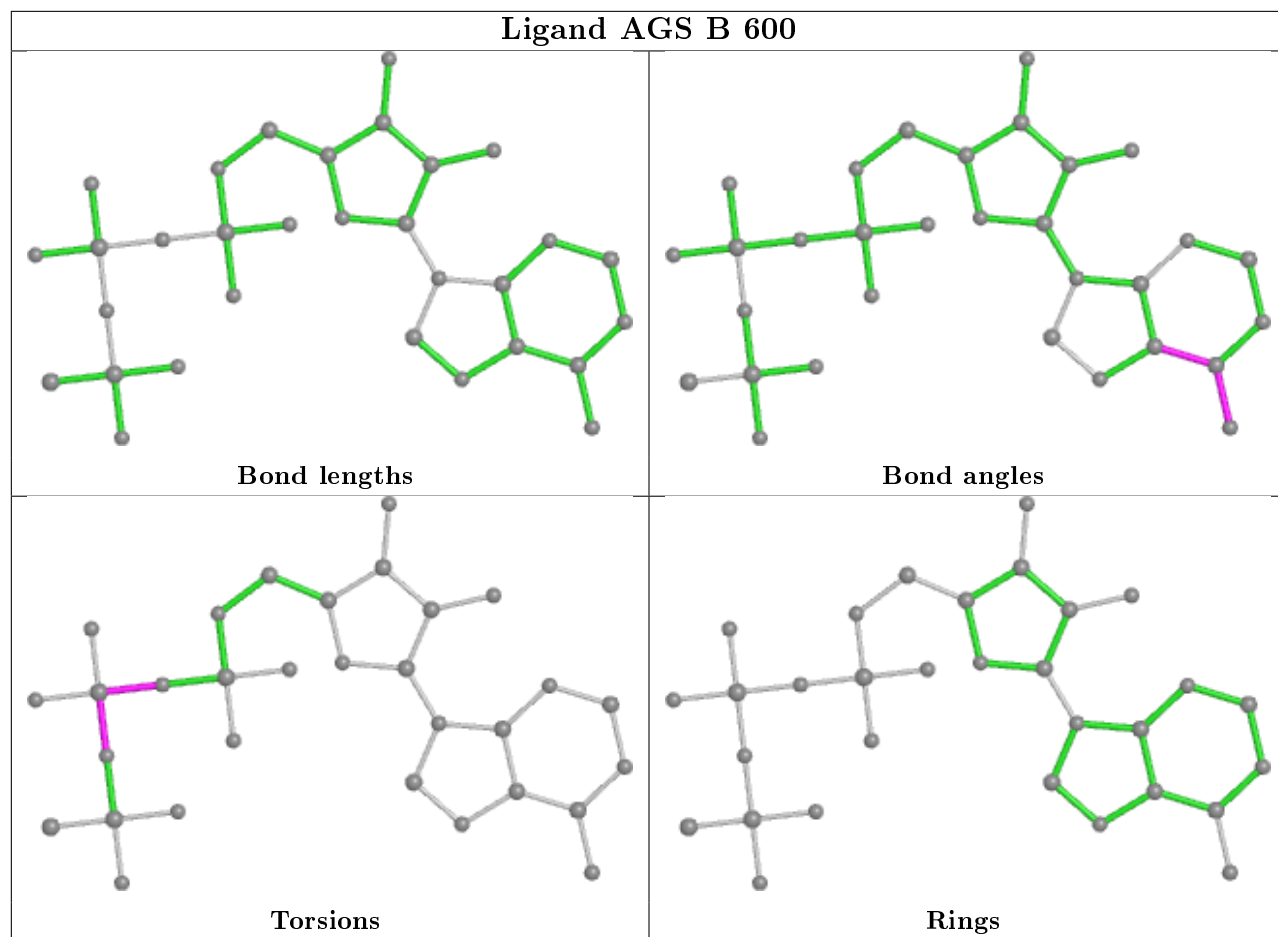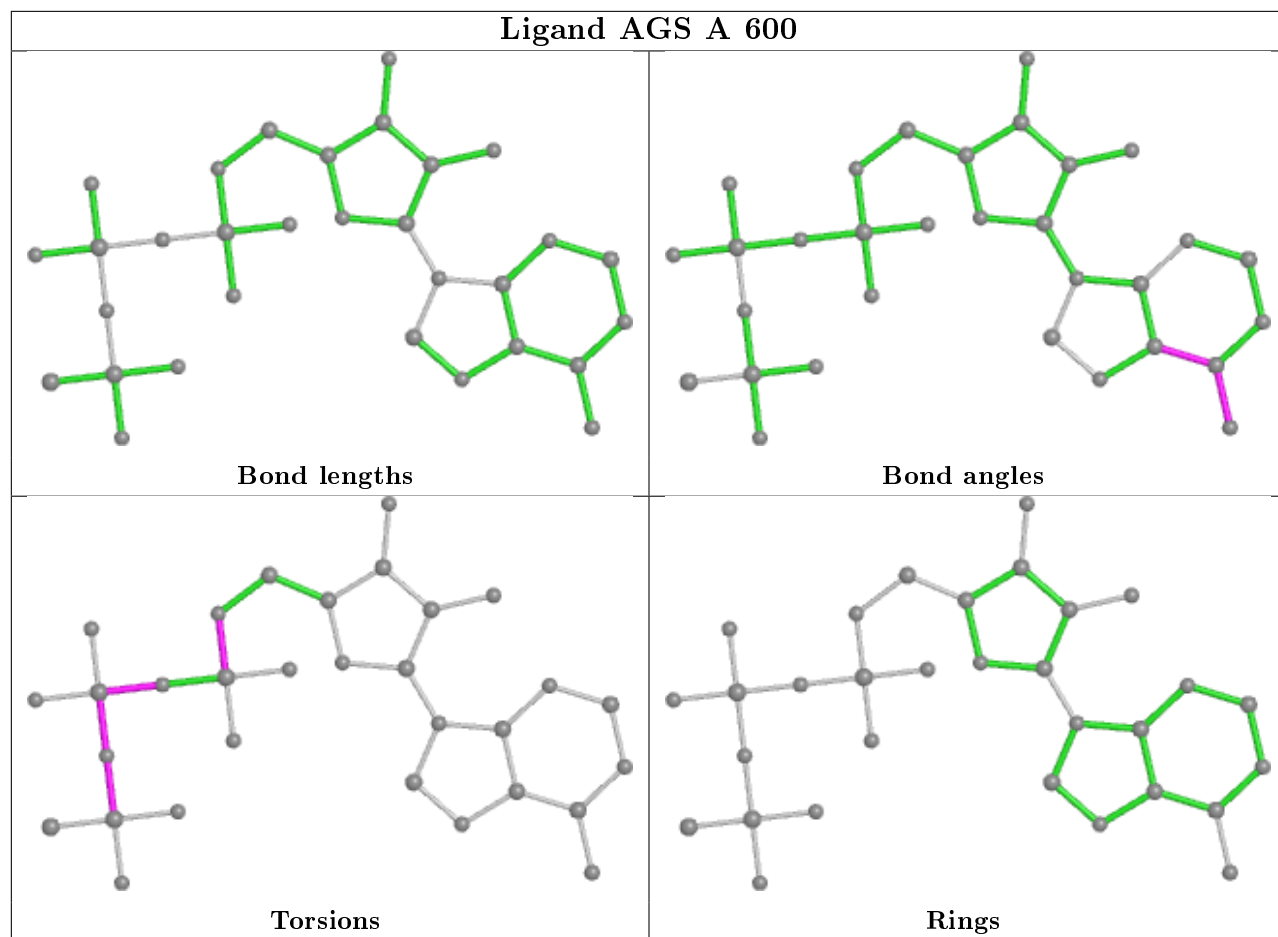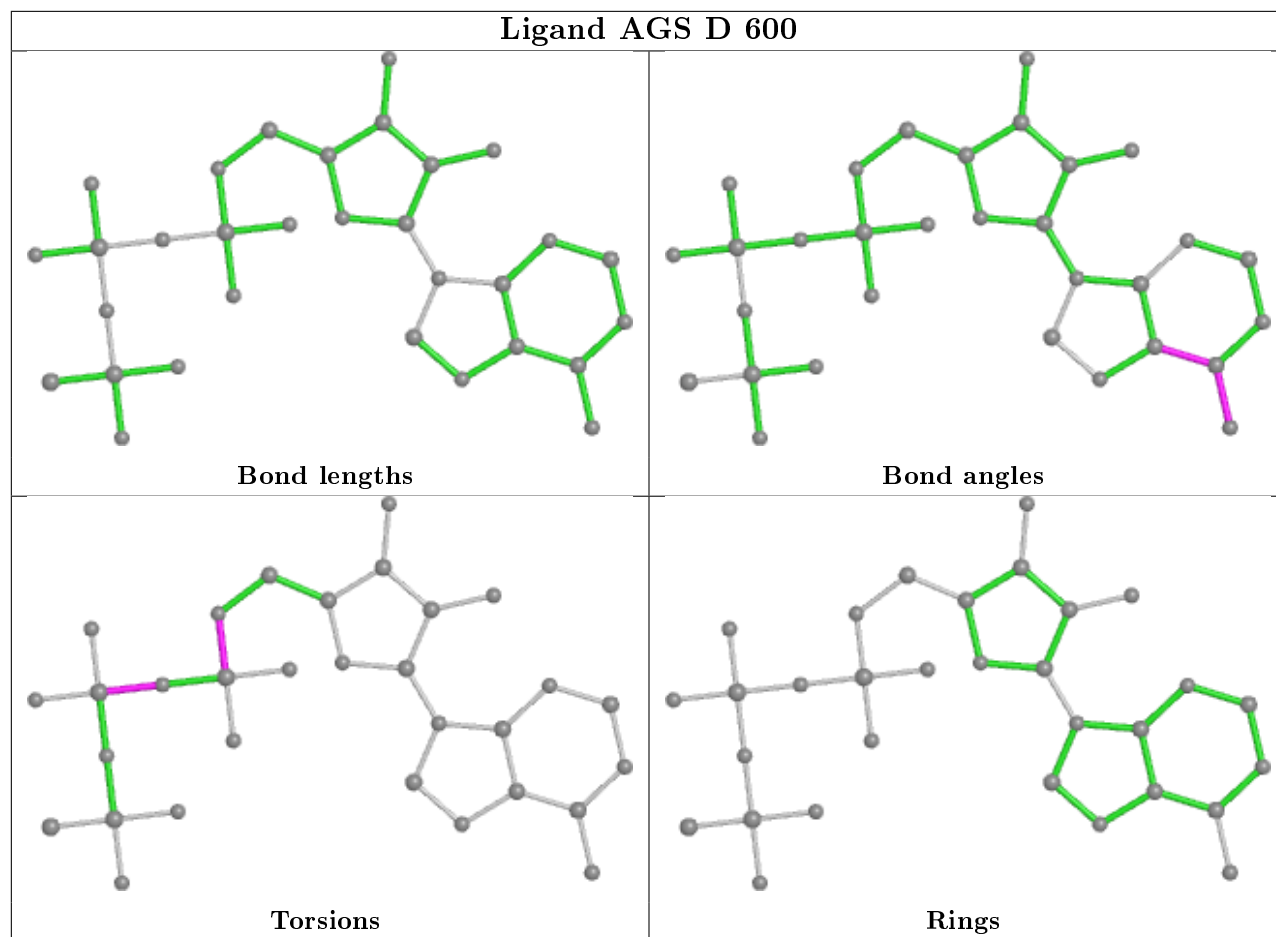
5.7 Other polymers (i)

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(Å²)	Q<0.9
1	A	568/587 (96%)	-0.33	6 (1%)	80	70	19, 52, 106, 123	0
1	C	569/587 (96%)	-0.15	15 (2%)	56	42	35, 71, 121, 136	0
2	B	570/599 (95%)	-0.17	5 (0%)	84	76	22, 61, 98, 118	0
2	D	574/599 (95%)	-0.22	1 (0%)	95	94	35, 65, 95, 115	0
3	E	124/128 (96%)	1.44	34 (27%)	0	0	100, 136, 173, 188	0
3	F	124/128 (96%)	0.93	23 (18%)	1	0	92, 123, 141, 160	0
All	All	2529/2628 (96%)	-0.08	84 (3%)	46	32	19, 66, 130, 188	0

The worst 5 of 84 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	E	11	SER	6.5
3	F	60	TYR	6.2
3	E	36	TRP	5.6
3	E	41	PRO	5.5
3	F	39	GLN	5.4

6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.
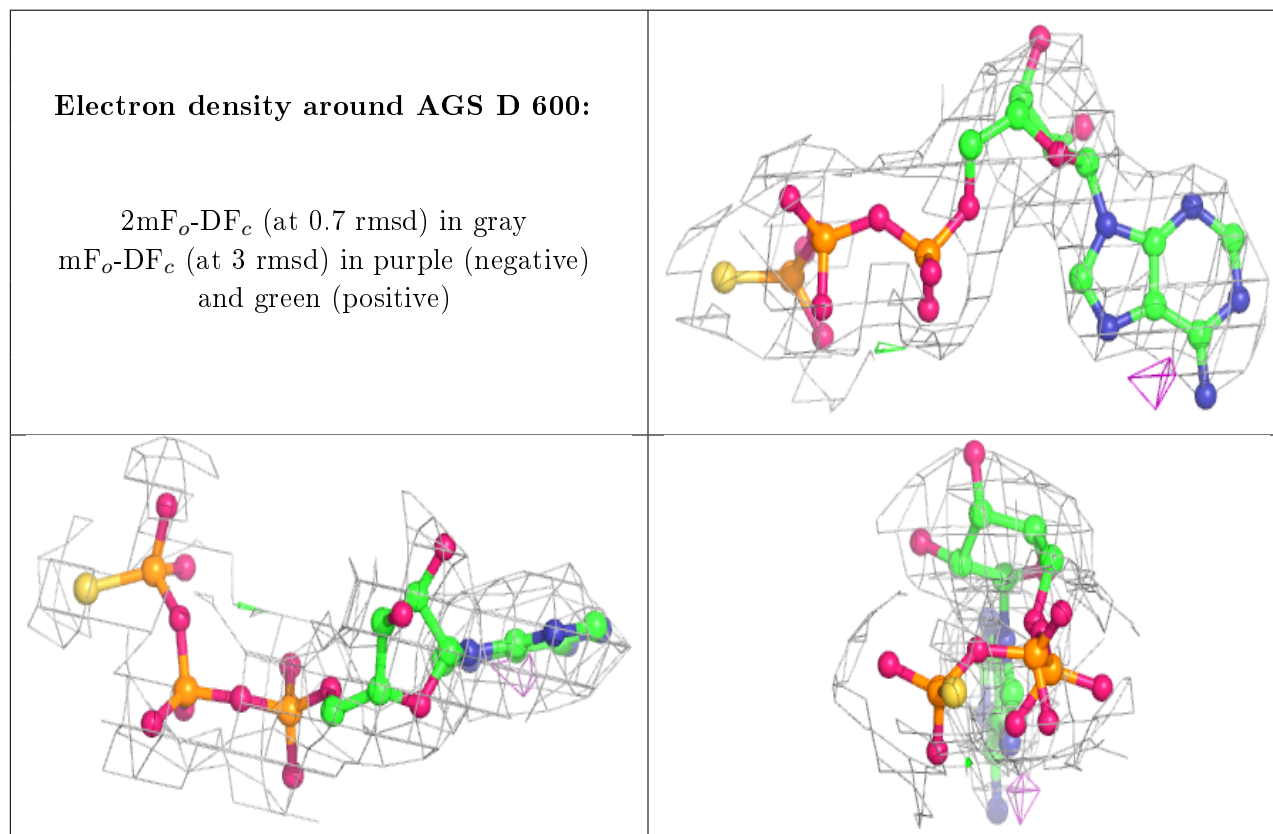
6.3 Carbohydrates (i)

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($Å^2$)	Q<0.9
4	AGS	D	600	31/31	0.95	0.21	41,47,51,51	0
5	MG	D	601	1/1	0.95	0.18	16,16,16,16	0
4	AGS	B	600	31/31	0.96	0.18	41,46,52,54	0
4	AGS	C	600	31/31	0.96	0.17	62,65,66,66	0
5	MG	B	601	1/1	0.97	0.19	27,27,27,27	0
4	AGS	A	600	31/31	0.97	0.18	24,28,34,35	0
5	MG	A	601	1/1	0.98	0.26	16,16,16,16	0
5	MG	C	601	1/1	0.98	0.22	35,35,35,35	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.
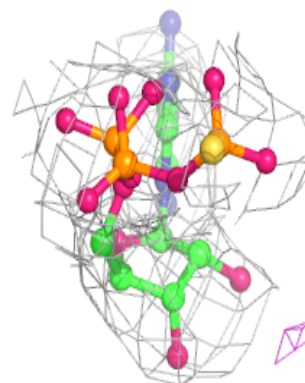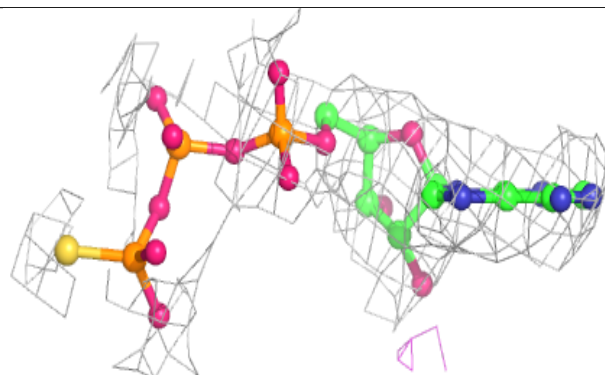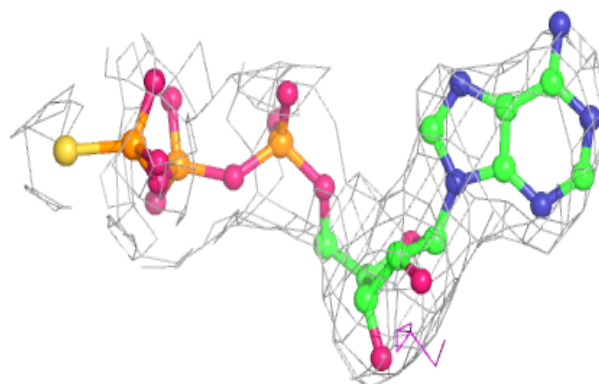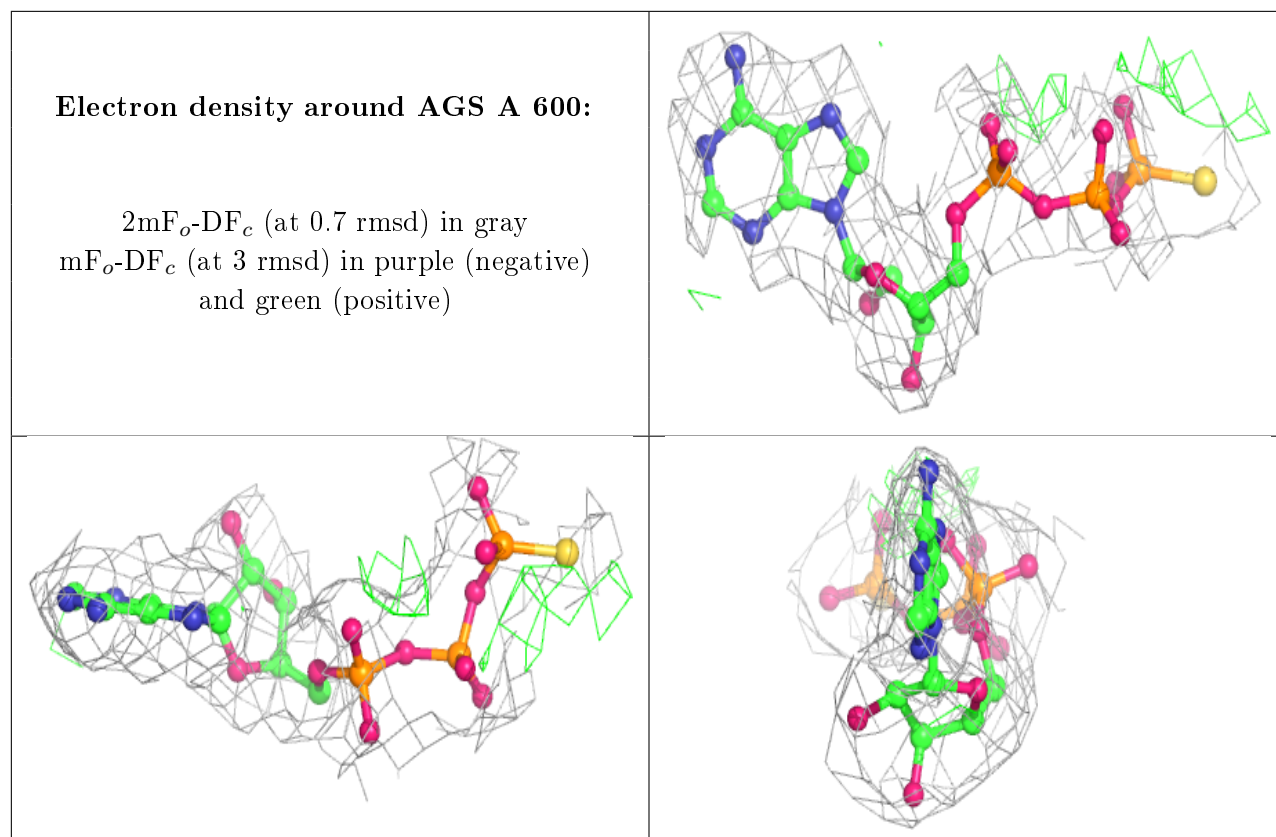

Electron density around AGS D 600:

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

Electron density around AGS B 600:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
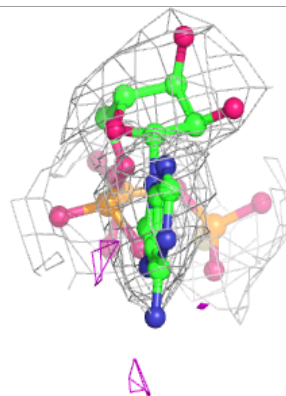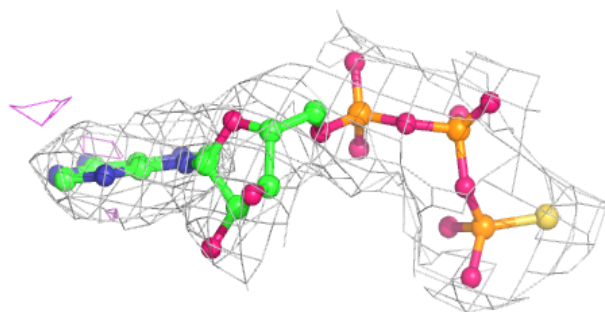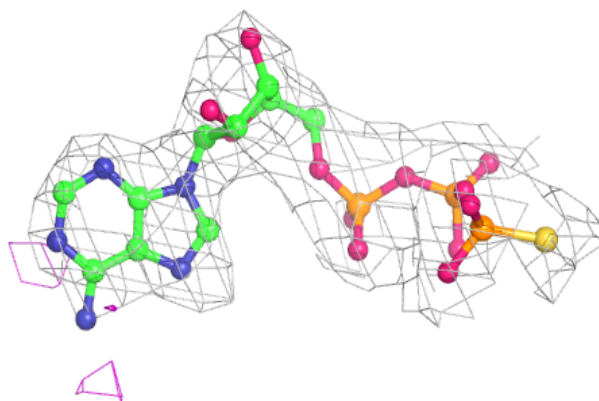
Electron density around AGS C 600:

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

Electron density around AGS A 600:

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

6.5 Other polymers (i)

There are no such residues in this entry.