Full wwPDB X-ray Structure Validation Report ⓘ

Aug 4, 2025 – 02:05 PM EDT

PDB ID	:	7HTQ / pdb_00007htq
Title	:	PanDDA analysis group deposition – Crystal Structure of FatA in complex with Z55993012
Authors	:	Kot, E.; Ni, X.; Tomlinson, C.W.E.; Fearon, D.; Aschenbrenner, J.C.; Fairhead, M.; Koekemoer, L.; Marx, M.L.; Wright, N.D.; Mulholland, N.P.; Montgomery, M.G.; von Delft, F.
Deposited on	:	2024-12-23
Resolution	:	1.60 Å(reported)

The following versions of software and data (see references ①) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0rc1
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.006 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.45.1

W O R L D W I D E
wwPDB
PROTEIN DATA BANK

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 1.60 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.
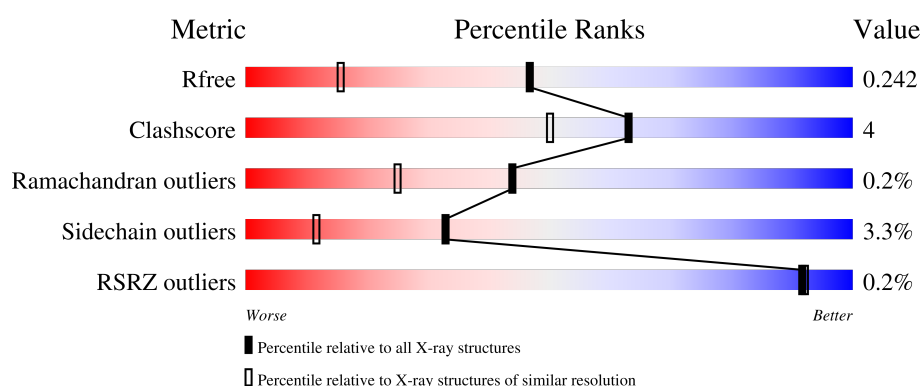
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	4274 (1.60-1.60)
Clashscore	180529	4682 (1.60-1.60)
Ramachandran outliers	177936	4583 (1.60-1.60)
Sidechain outliers	177891	4582 (1.60-1.60)
RSRZ outliers	164620	4272 (1.60-1.60)

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	A	295	83% 8% 9%
1	B	295	81% 9% · 9%

2   Entry composition ⓘ

There are 4 unique types of molecules in this entry. The entry contains 4945 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.
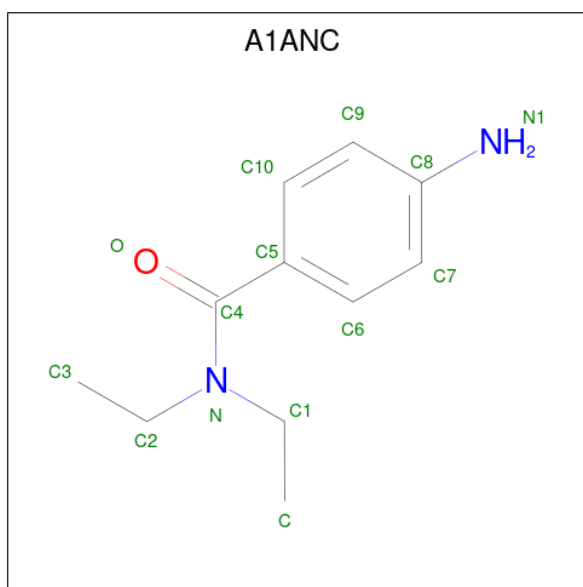
- Molecule 1 is a protein called Oleoyl-acyl carrier protein thioesterase 1, chloroplastic.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	269	Total	C	N	O	S	0	5	0
			2234	1388	394	436	16			
1	B	268	Total	C	N	O	S	0	4	0
			2220	1384	390	432	14			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	74	MET	-	initiating methionine	UNP Q42561
A	363	HIS	-	expression tag	UNP Q42561
A	364	HIS	-	expression tag	UNP Q42561
A	365	HIS	-	expression tag	UNP Q42561
A	366	HIS	-	expression tag	UNP Q42561
A	367	HIS	-	expression tag	UNP Q42561
A	368	HIS	-	expression tag	UNP Q42561
B	74	MET	-	initiating methionine	UNP Q42561
B	363	HIS	-	expression tag	UNP Q42561
B	364	HIS	-	expression tag	UNP Q42561
B	365	HIS	-	expression tag	UNP Q42561
B	366	HIS	-	expression tag	UNP Q42561
B	367	HIS	-	expression tag	UNP Q42561
B	368	HIS	-	expression tag	UNP Q42561

- Molecule 2 is 4-amino-N,N-diethylbenzamide (CCD ID: A1ANC) (formula: $C_{11}H_{16}N_2O$) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total 14	C 11	N 2	O 1	0	0
2	A	1	Total 14	C 11	N 2	O 1	0	0
2	A	1	Total 14	C 11	N 2	O 1	0	0
2	A	1	Total 14	C 11	N 2	O 1	0	0
2	B	1	Total 14	C 11	N 2	O 1	0	0
2	B	1	Total 14	C 11	N 2	O 1	0	0
2	B	1	Total 14	C 11	N 2	O 1	0	0
2	B	1	Total 14	C 11	N 2	O 1	0	0

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O_4S).

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total 5	O 4	S 1	0	0
3	A	1	Total 5	O 4	S 1	0	0
3	B	1	Total 5	O 4	S 1	0	0
3	B	1	Total 5	O 4	S 1	0	0

• Molecule 4 is water.

| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	184	Total 184	O 184	0	0
4	B	175	Total 175	O 175	0	0

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: Oleoyl-acyl carrier protein thioesterase 1, chloroplastic

Chain A:

• Molecule 1: Oleoyl-acyl carrier protein thioesterase 1, chloroplastic

Chain B:
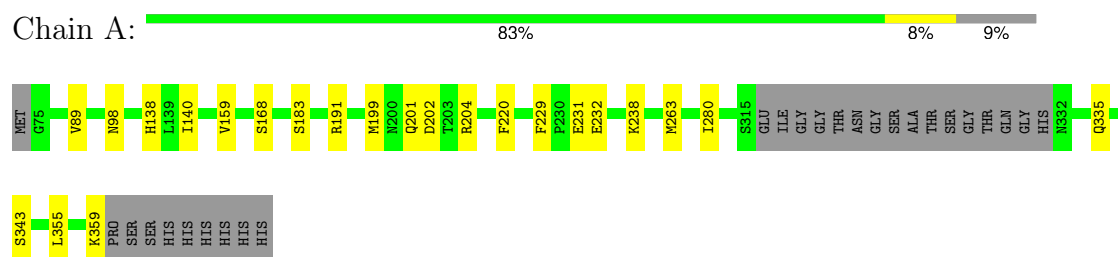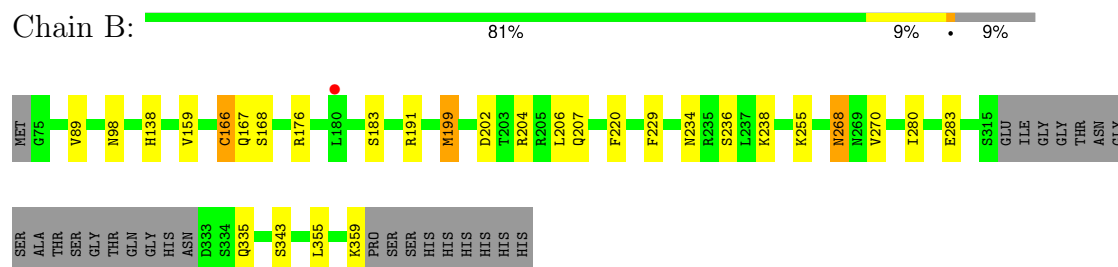
4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α, β, γ	99.05Å 99.05Å 128.51Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	23.35 – 1.60 23.35 – 1.60	Depositor EDS
% Data completeness (in resolution range)	99.8 (23.35-1.60) 99.8 (23.35-1.60)	Depositor EDS
R_{merge}	0.21	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.08 (at 1.60Å)	Xtriage
Refinement program	BUSTER 2.10.4 (23-JAN-2024)	Depositor
R, R_{free}	0.218 , 0.244 0.213 , 0.242	Depositor DCC
R_{free} test set	3992 reflections (4.79%)	wwPDB-VP
Wilson B-factor (Å^2)	23.0	Xtriage
Anisotropy	0.176	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.37 , 40.7	EDS
L-test for twinning[2]	$< |L| > = 0.51, < L^2 > = 0.34$	Xtriage
Estimated twinning fraction	0.479 for -k,-h,-l	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	4945	wwPDB-VP
Average B, all atoms (Å^2)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.11% 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 ⓘ

5.1   Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: SO4, A1ANC

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	0.78	0/2274	0.95	1/3078 (0.0%)
1	B	0.80	1/2260 (0.0%)	0.94	1/3061 (0.0%)
All	All	0.79	1/4534 (0.0%)	0.95	2/6139 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	199	MET	SD-CE	-5.18	1.66	1.79

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	280	ILE	N-CA-C	-6.11	103.37	108.63
1	A	280	ILE	N-CA-C	-6.03	103.44	108.63

There are no chirality outliers.

There are no planarity outliers.

5.2   Too-close contacts ⓘ

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	2234	0	2185	13	0
1	B	2220	0	2176	20	0
2	A	56	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	56	0	0	4	0
3	A	10	0	0	0	0
3	B	10	0	0	0	0
4	A	184	0	0	1	0
4	B	175	0	0	2	0
All	All	4945	0	4361	35	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 4.

All (35) 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:B:268:ASN:HD22	1:B:270:VAL:H	1.23	0.86
1:B:166[B]:CYS:SG	2:B:403:A1ANC:C7	2.72	0.78
1:B:234:ASN:ND2	1:B:236:SER:OG	2.27	0.67
1:B:199:MET:CE	1:B:204:ARG:HE	2.10	0.64
1:A:199:MET:CE	1:A:204:ARG:HE	2.09	0.64
1:B:98:ASN:HD21	1:B:359:LYS:NZ	1.96	0.63
1:A:98:ASN:HD21	1:A:359:LYS:NZ	1.98	0.62
1:B:268:ASN:ND2	1:B:270:VAL:H	1.96	0.61
1:B:98:ASN:HD21	1:B:359:LYS:HZ3	1.50	0.58
1:A:343:SER:HB2	4:A:577:HOH:O	2.02	0.58
1:B:166[B]:CYS:SG	2:B:403:A1ANC:C6	2.93	0.56
1:A:199:MET:HE3	1:A:204:ARG:HE	1.73	0.52
1:A:89:VAL:HG22	1:A:159:VAL:HG22	1.92	0.51
1:B:89:VAL:HG22	1:B:159:VAL:HG22	1.93	0.51
1:A:335:GLN:HG2	1:A:355:LEU:HD13	1.93	0.51
1:A:220:PHE:HB3	2:A:403:A1ANC:N1	2.26	0.50
1:B:138:HIS:HD2	1:B:202:ASP:OD2	1.94	0.50
1:B:166[C]:CYS:SG	1:B:176:ARG:NH1	2.85	0.50
1:B:335:GLN:HG2	1:B:355:LEU:HD13	1.93	0.50
1:A:138:HIS:HD2	1:A:202:ASP:OD2	1.95	0.49
1:B:199:MET:HE3	1:B:204:ARG:HE	1.77	0.49
1:A:98:ASN:HD21	1:A:359:LYS:HZ1	1.60	0.48
1:B:166[C]:CYS:SG	1:B:176:ARG:CZ	3.03	0.47
2:A:401:A1ANC:C1	2:A:401:A1ANC:C6	2.94	0.46
1:B:167:GLN:HG3	4:B:608:HOH:O	2.16	0.44
1:B:191:ARG:HG3	1:B:229:PHE:CZ	2.53	0.43
1:A:140:ILE:HD11	1:A:199:MET:HE2	2.00	0.43
1:B:199:MET:HE1	1:B:204:ARG:HH11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:167:GLN:HG2	4:B:509:HOH:O	2.18	0.42
1:B:199:MET:HE1	1:B:204:ARG:HE	1.84	0.42
1:B:220:PHE:HB3	2:B:403:A1ANC:N1	2.35	0.41
1:A:191:ARG:HG3	1:A:229:PHE:CZ	2.54	0.41
1:A:98:ASN:HD21	1:A:359:LYS:HZ3	1.68	0.41
2:B:401:A1ANC:C6	2:B:401:A1ANC:C2	2.98	0.41
1:A:199:MET:HE1	1:A:204:ARG:HE	1.86	0.41

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	275/295 (93%)	270 (98%)	4 (2%)	1 (0%)	30	14
1	B	272/295 (92%)	270 (99%)	2 (1%)	0	100	100
All	All	547/590 (93%)	540 (99%)	6 (1%)	1 (0%)	44	25

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	231	GLU

5.3.2 Protein sidechains ⓘ

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	253/263 (96%)	247 (98%)	6 (2%)	44	20
1	B	250/263 (95%)	238 (95%)	12 (5%)	21	5
All	All	503/526 (96%)	485 (96%)	18 (4%)	33	10

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	168	SER
1	A	183	SER
1	A	201	GLN
1	A	232	GLU
1	A	238	LYS
1	A	263	MET
1	B	166[A]	CYS
1	B	166[B]	CYS
1	B	166[C]	CYS
1	B	168	SER
1	B	183	SER
1	B	206	LEU
1	B	207	GLN
1	B	238	LYS
1	B	255	LYS
1	B	268	ASN
1	B	283	GLU
1	B	343	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	98	ASN
1	A	138	HIS
1	A	201	GLN
1	A	264	ASN
1	A	266	HIS
1	A	302	GLN
1	B	98	ASN
1	B	138	HIS
1	B	234	ASN
1	B	264	ASN
1	B	266	HIS
1	B	268	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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

12 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	$\#|Z| > 2$
3	SO4	B	406	-	4,4,4	0.30	0	6,6,6	0.19	0
3	SO4	A	405	-	4,4,4	0.35	0	6,6,6	0.56	0
2	A1ANC	B	402	-	14,14,14	0.24	0	18,18,18	0.40	0
3	SO4	A	406	-	4,4,4	0.27	0	6,6,6	0.16	0
3	SO4	B	405	-	4,4,4	0.33	0	6,6,6	0.60	0
2	A1ANC	A	403	-	14,14,14	0.26	0	18,18,18	0.75	0
2	A1ANC	B	403	-	14,14,14	0.25	0	18,18,18	0.72	0
2	A1ANC	A	401	-	14,14,14	0.34	0	18,18,18	0.91	1 (5%)
2	A1ANC	A	402	-	14,14,14	0.25	0	18,18,18	0.47	0
2	A1ANC	B	404	-	14,14,14	0.28	0	18,18,18	0.50	0
2	A1ANC	A	404	-	14,14,14	0.30	0	18,18,18	0.52	0
2	A1ANC	B	401	-	14,14,14	0.32	0	18,18,18	0.83	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
2	A1ANC	B	402	-	-	3/12/12/12	0/1/1/1
2	A1ANC	A	403	-	-	3/12/12/12	0/1/1/1
2	A1ANC	B	403	-	-	0/12/12/12	0/1/1/1
2	A1ANC	A	401	-	-	1/12/12/12	0/1/1/1
2	A1ANC	A	402	-	-	0/12/12/12	0/1/1/1
2	A1ANC	B	404	-	-	1/12/12/12	0/1/1/1
2	A1ANC	A	404	-	-	2/12/12/12	0/1/1/1
2	A1ANC	B	401	-	-	0/12/12/12	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	401	A1ANC	C5-C4-N	2.25	121.47	118.66

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	402	A1ANC	C5-C4-N-C2
2	A	403	A1ANC	C5-C4-N-C2
2	A	404	A1ANC	C3-C2-N-C4
2	A	404	A1ANC	C3-C2-N-C1
2	B	402	A1ANC	O-C4-N-C2
2	B	404	A1ANC	C-C1-N-C2
2	B	402	A1ANC	C3-C2-N-C1
2	A	403	A1ANC	O-C4-N-C2
2	A	403	A1ANC	C5-C4-N-C1
2	A	401	A1ANC	N-C4-C5-C10

There are no ring outliers.

4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	403	A1ANC	1	0
2	B	403	A1ANC	3	0
2	A	401	A1ANC	1	0
2	B	401	A1ANC	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 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.
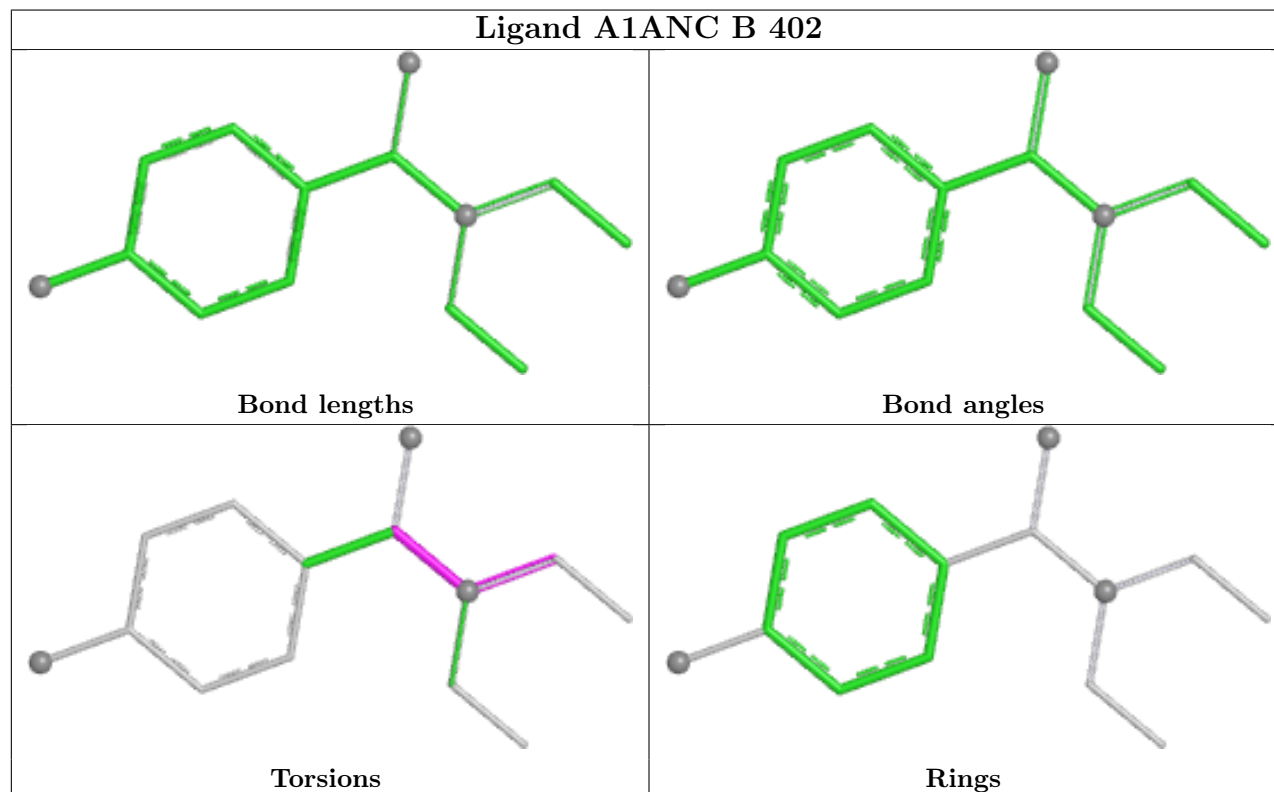
Ligand A1ANC B 402
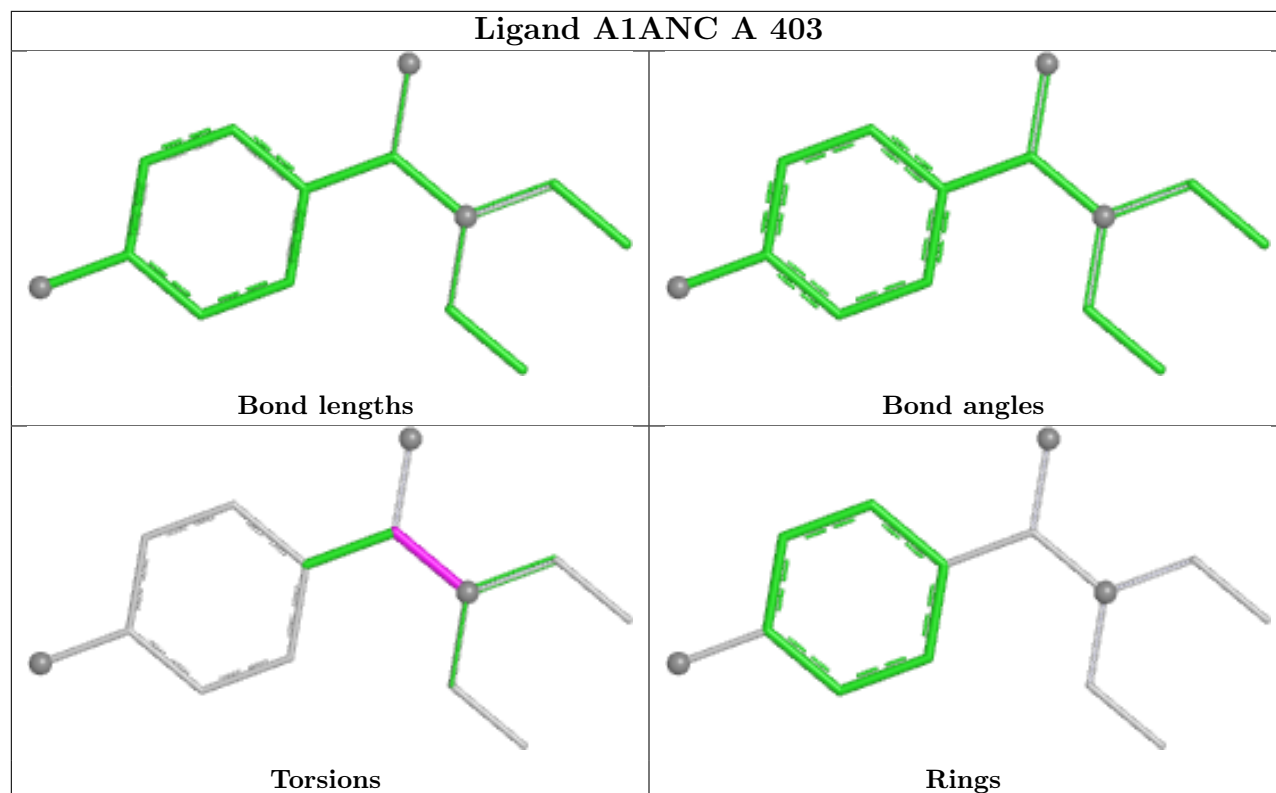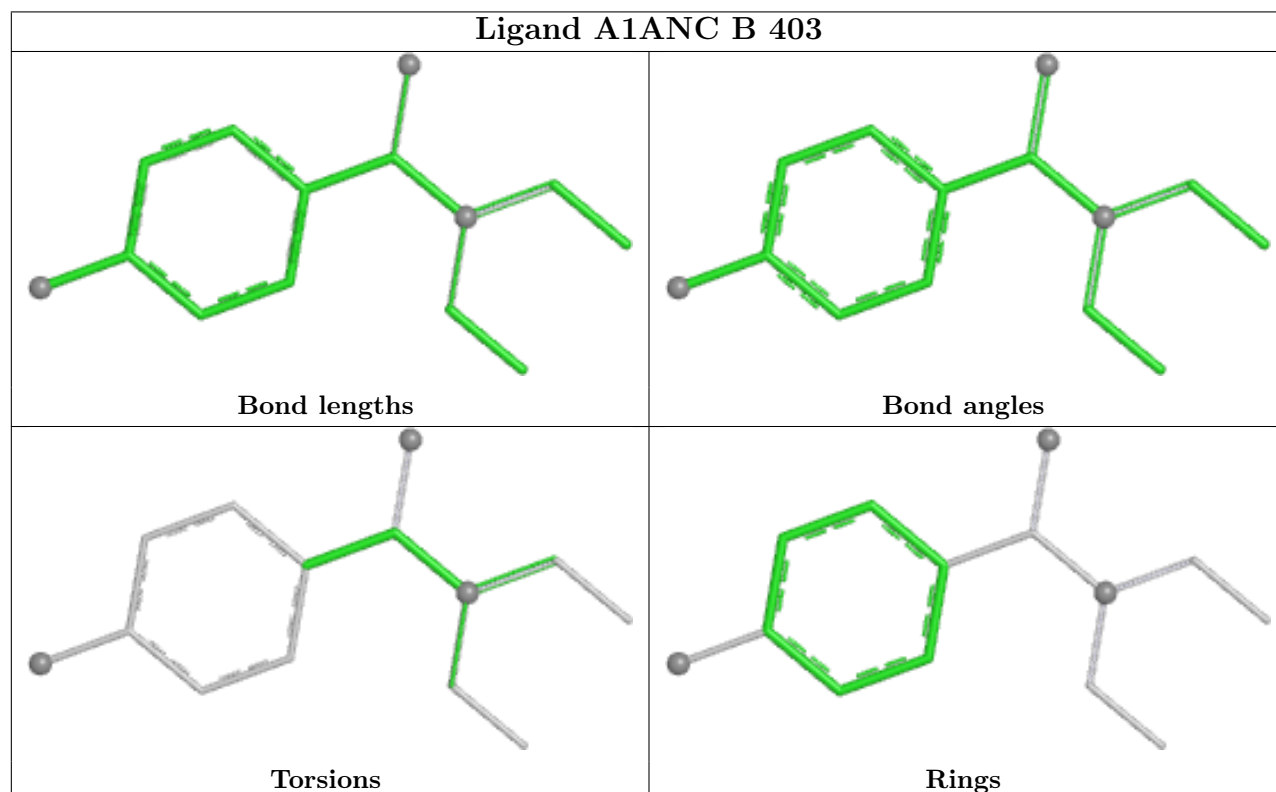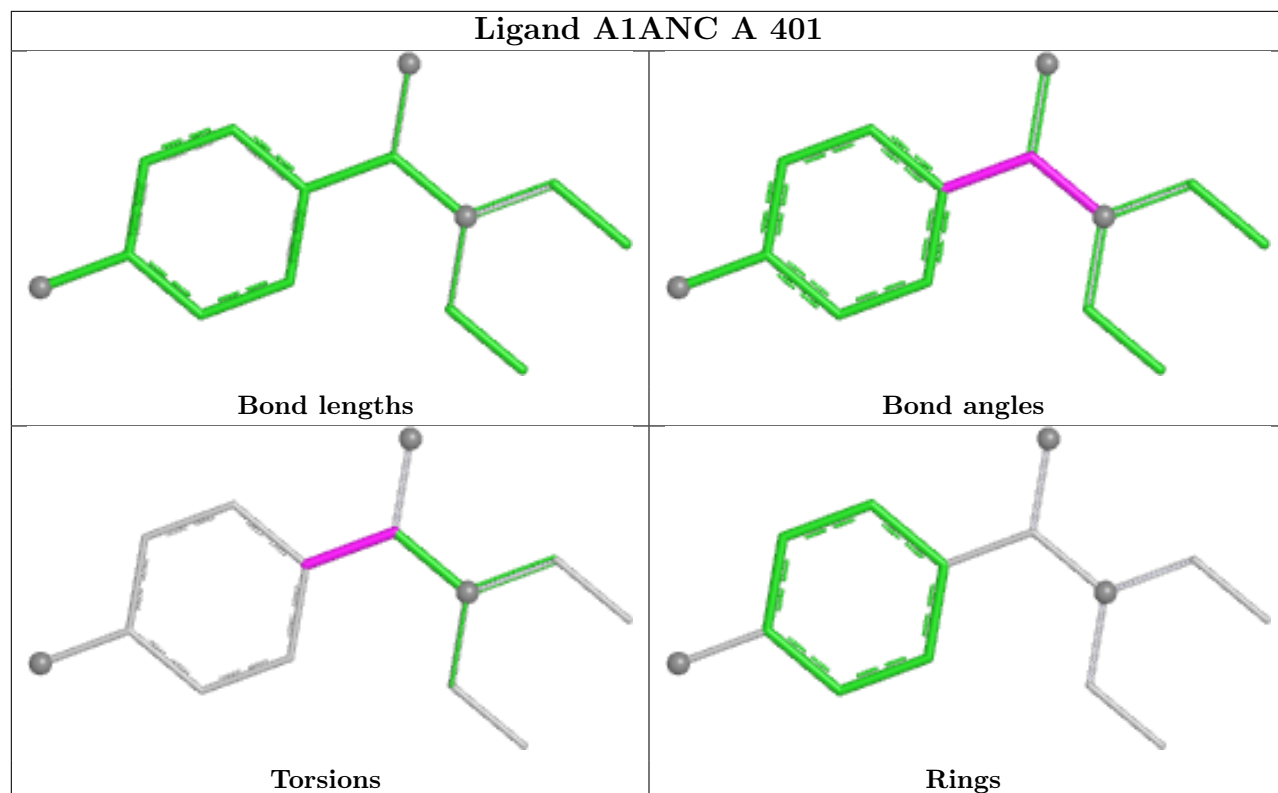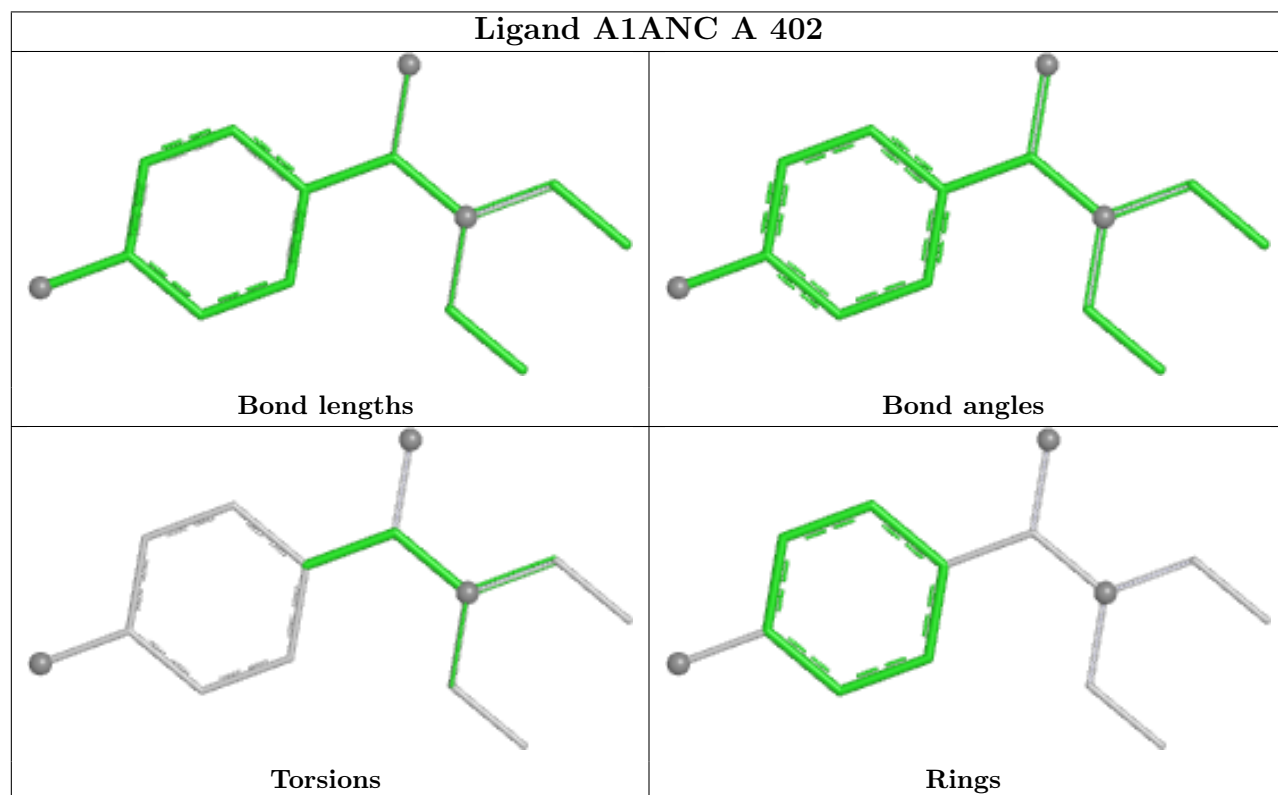
Bond lengths — Bond angles — Torsions — Rings

Ligand A1ANC A 403

Bond lengths

Bond angles

Torsions

Rings

Ligand A1ANC B 403

Bond lengths

Bond angles

Torsions

Rings

Ligand A1ANC A 401

Bond lengths

Bond angles

Torsions

Rings

Ligand A1ANC A 402

Bond lengths

Bond angles

Torsions

Rings

Ligand A1ANC B 404

Bond lengths

Bond angles

Torsions

Rings

Ligand A1ANC A 404

Bond lengths

Bond angles

Torsions

Rings

Ligand A1ANC B 401

Bond lengths

Bond angles

Torsions

Rings
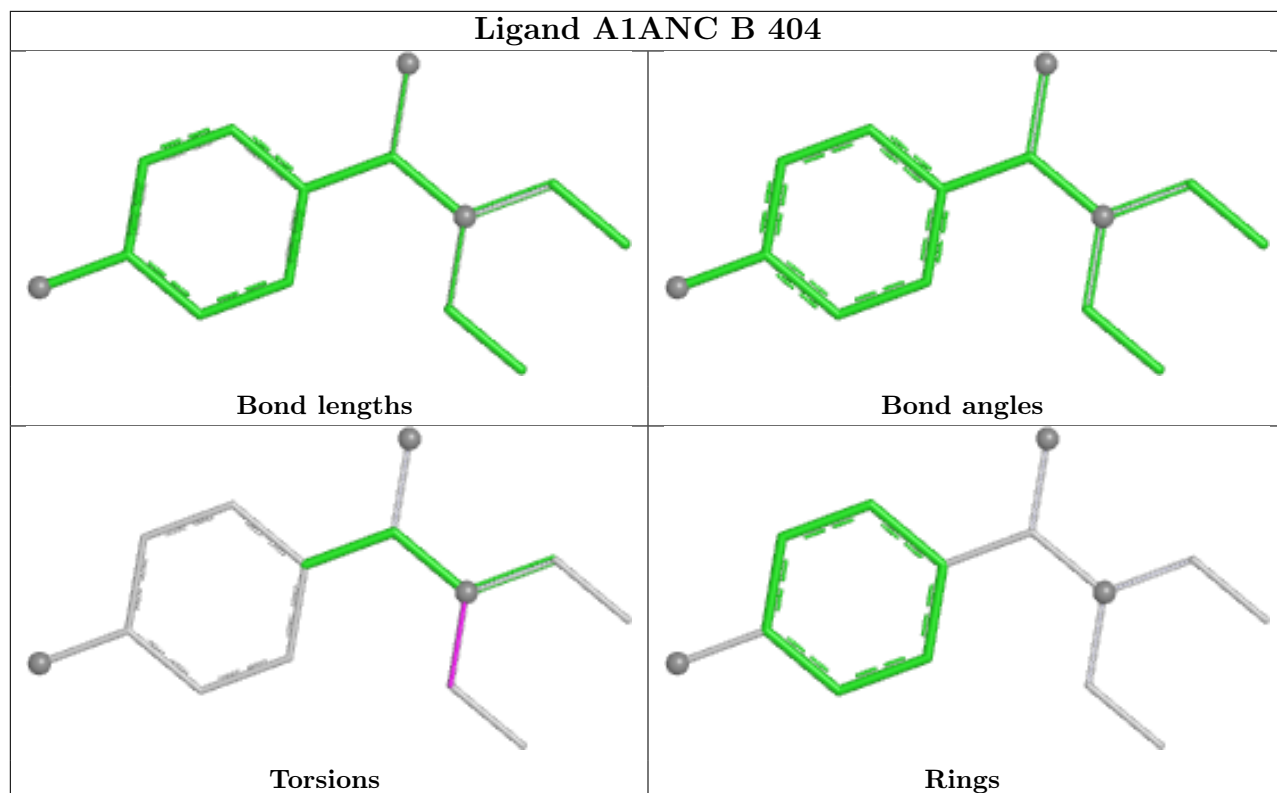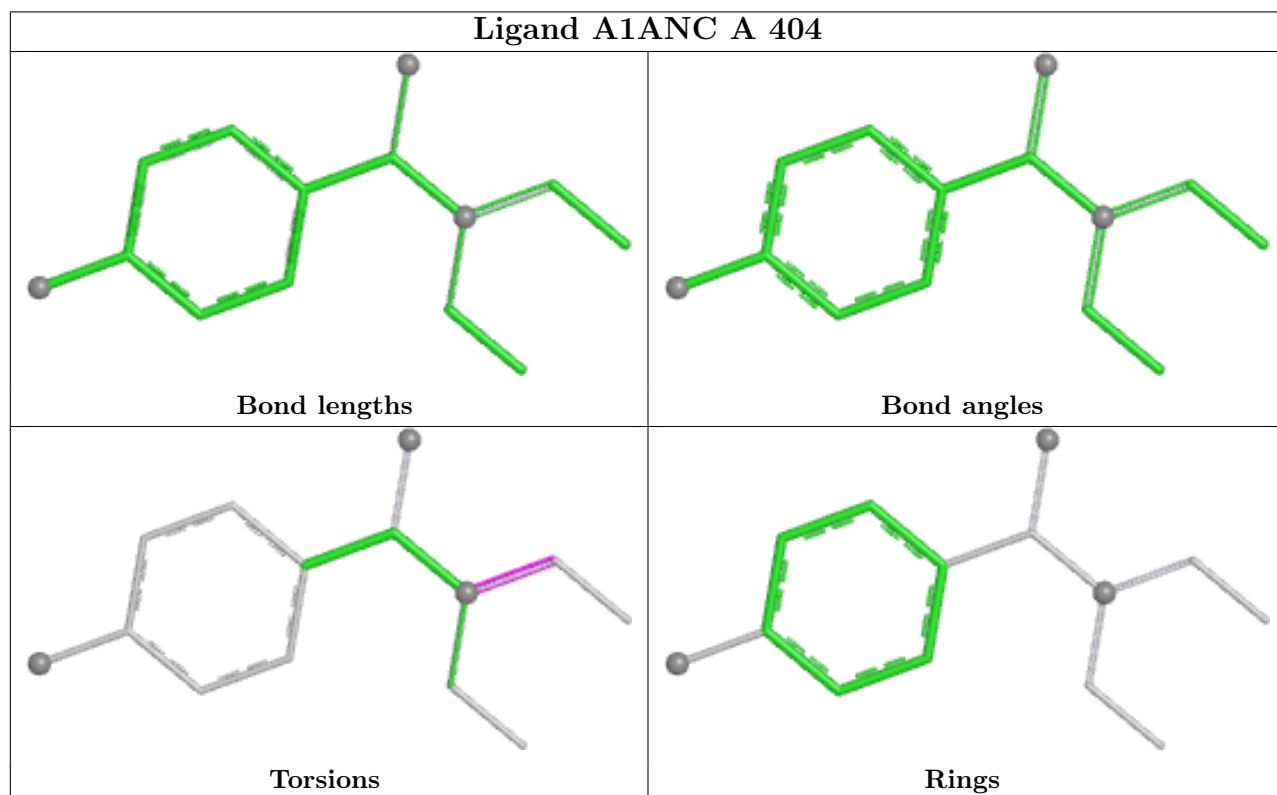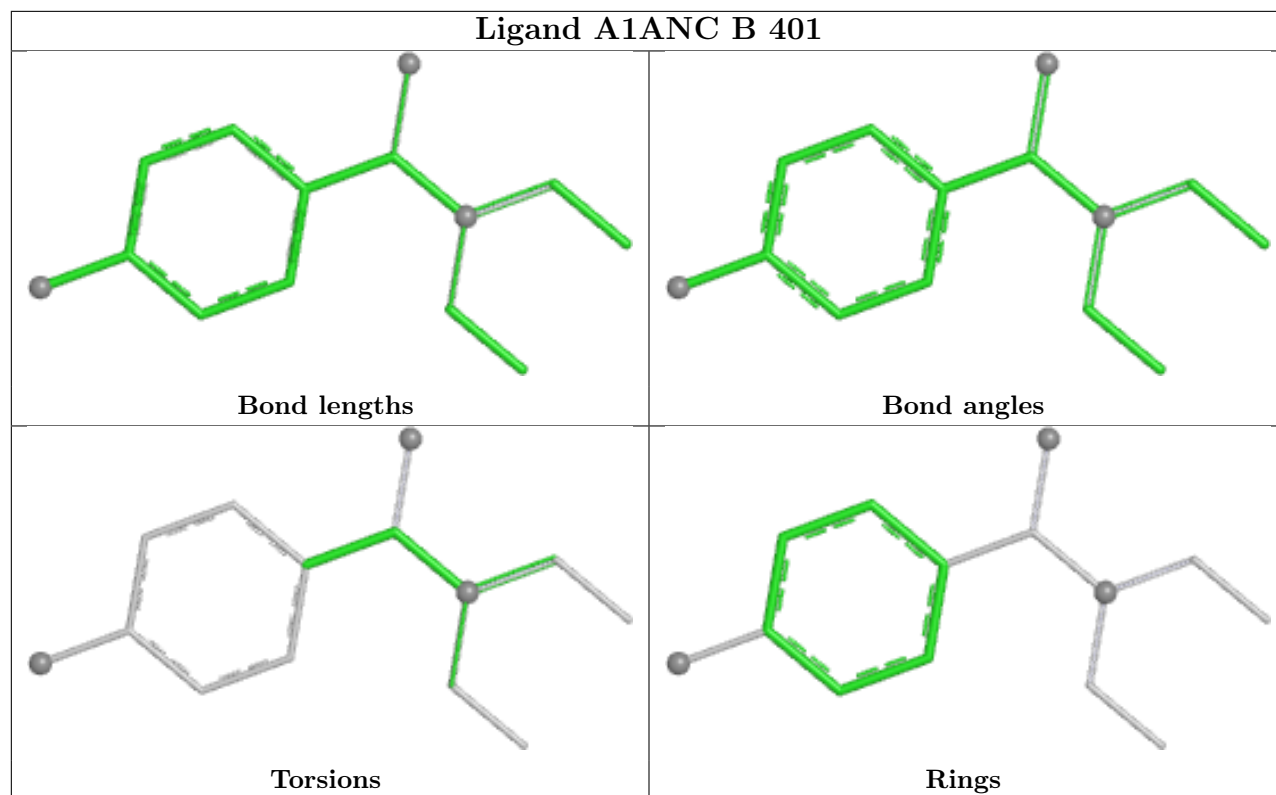
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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, 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	269/295 (91%)	-0.76	0	100	100	5, 24, 40, 59	51 (18%)
1	B	268/295 (90%)	-0.75	1 (0%)	89	90	2, 24, 40, 60	68 (25%)
All	All	537/590 (91%)	-0.76	1 (0%)	92	92	2, 24, 40, 60	119 (22%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	180[A]	LEU	2.2

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å²)	Q<0.9
2	A1ANC	A	402	14/14	0.95	0.08	33,34,36,37	14
2	A1ANC	A	403	14/14	0.95	0.08	23,25,26,26	14
2	A1ANC	B	402	14/14	0.95	0.08	33,36,39,39	14
2	A1ANC	B	404	14/14	0.96	0.07	22,23,24,24	14

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å²)	Q<0.9
2	A1ANC	B	403	14/14	0.97	0.06	24,25,27,28	14
2	A1ANC	B	401	14/14	0.97	0.06	25,28,32,32	14
3	SO4	A	405	5/5	0.97	0.08	32,33,35,35	5
2	A1ANC	A	404	14/14	0.98	0.04	21,22,23,23	14
2	A1ANC	A	401	14/14	0.98	0.06	22,26,32,32	14
3	SO4	A	406	5/5	0.98	0.06	63,63,63,63	5
3	SO4	B	405	5/5	0.98	0.08	30,31,32,33	5
3	SO4	B	406	5/5	0.98	0.06	66,66,66,66	5

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 A1ANC A 402:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
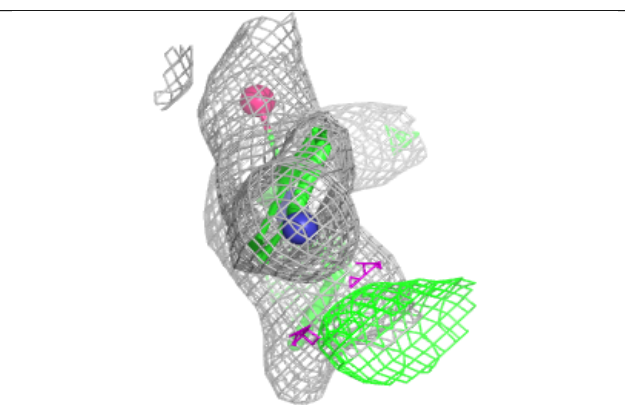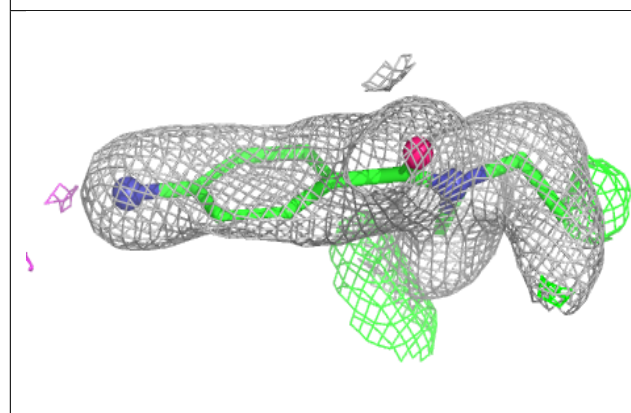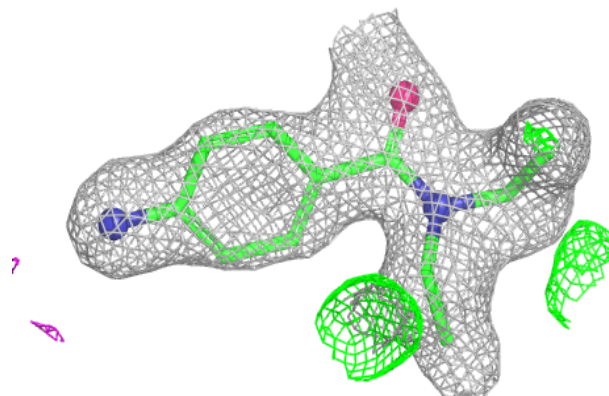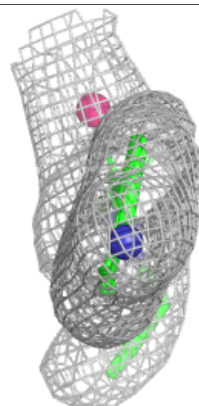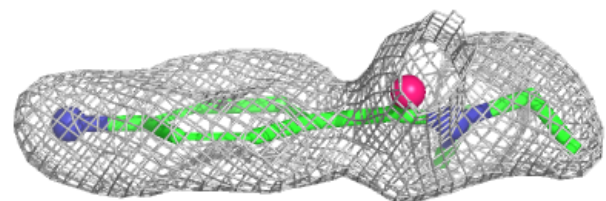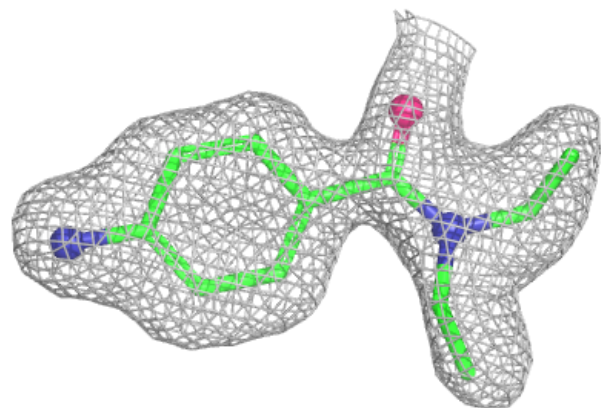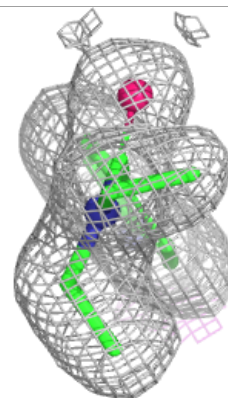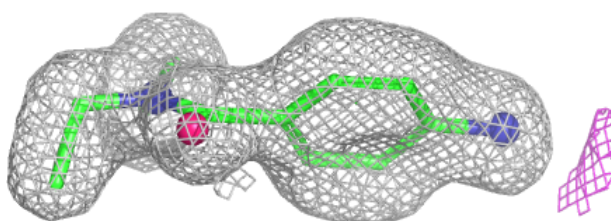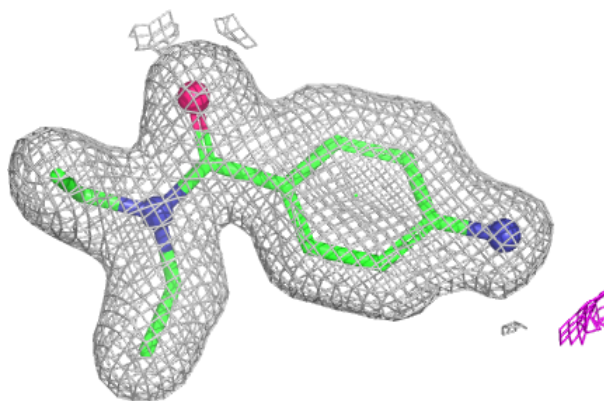
Electron density around A1ANC A 403:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
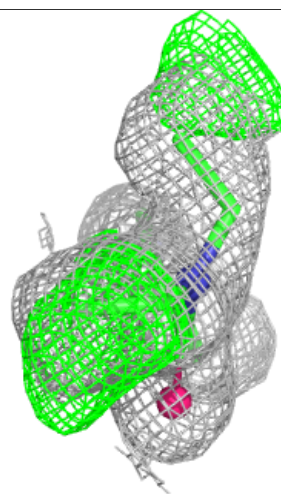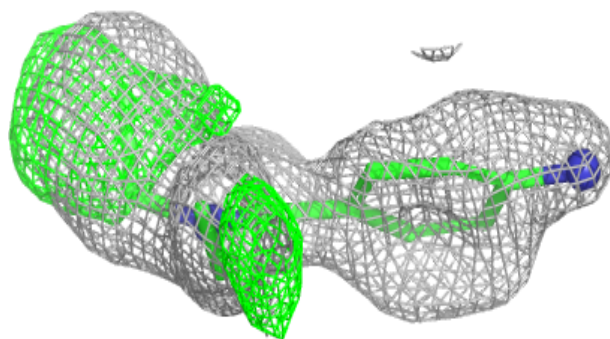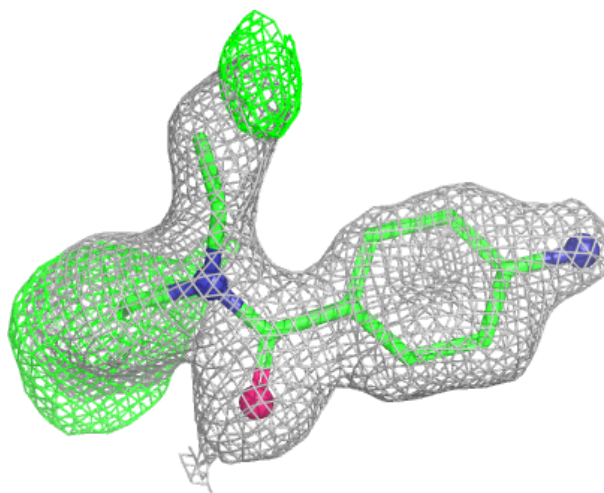
Electron density around A1ANC B 402:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
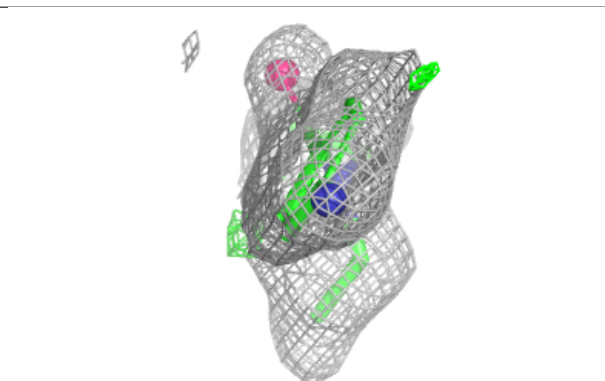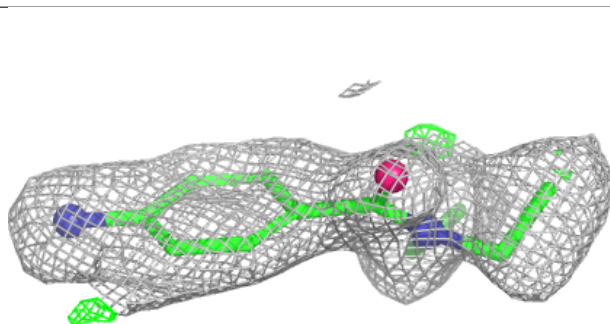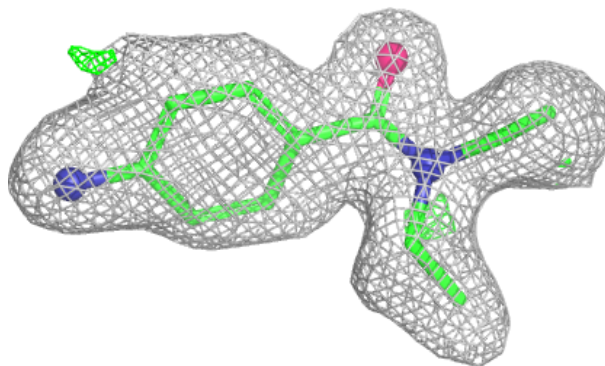
Electron density around A1ANC B 404:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
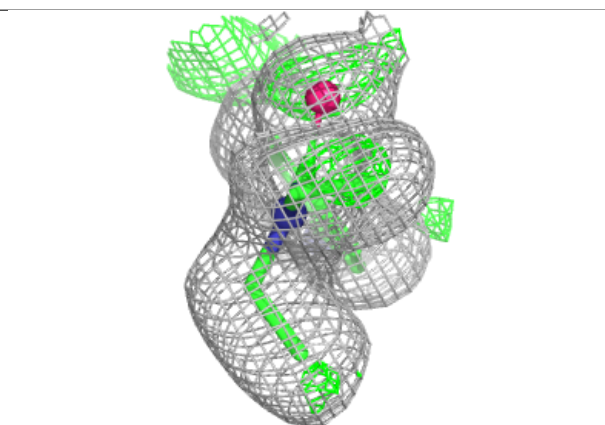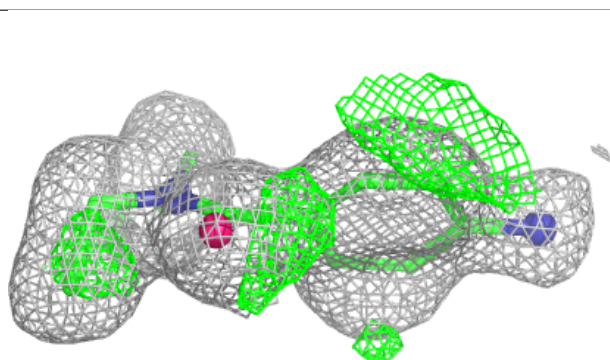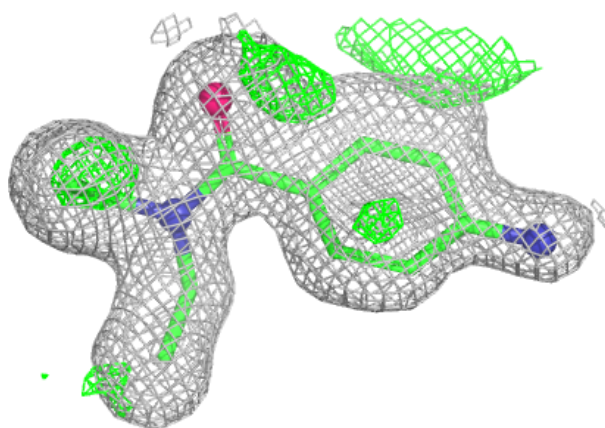
Electron density around A1ANC B 403:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
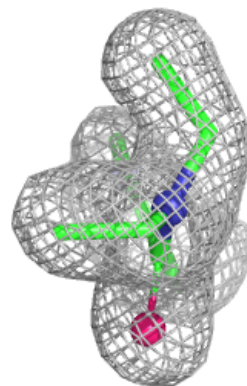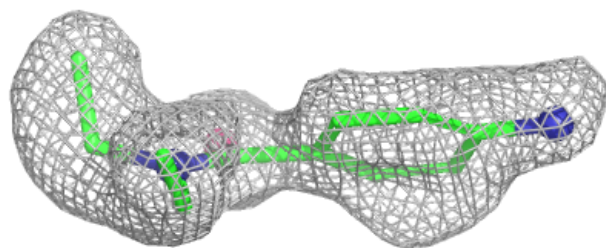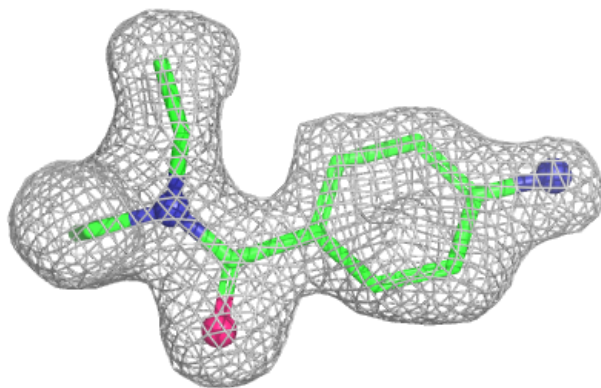
Electron density around A1ANC B 401:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
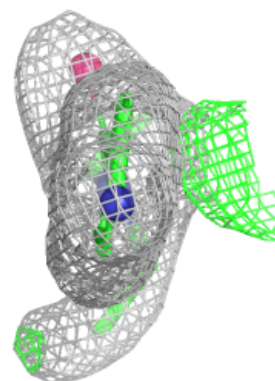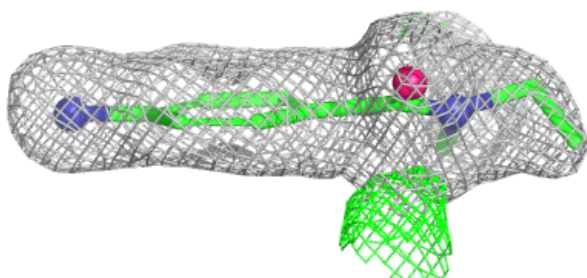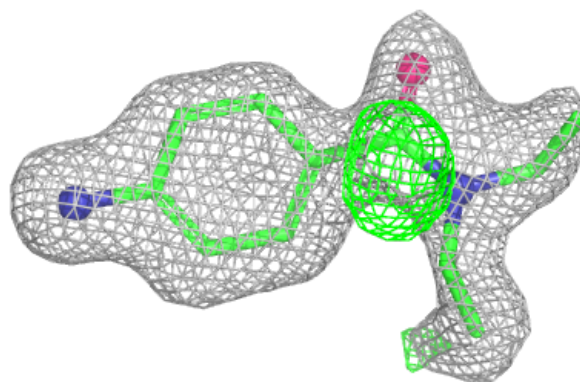
Electron density around A1ANC A 404:

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

Electron density around A1ANC A 401:

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

6.5 Other polymers ⓘ

There are no such residues in this entry.