



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 20, 2026 – 12:20 PM UTC

PDB ID : 6ZIC / pdb_00006zic
Title : CRYSTAL STRUCTURE OF RAT PEROXISOMAL MULTIFUNCTIONAL ENZYME TYPE-1 (RPMFE1) COMPLEXED WITH 3S-HYDROXYBUTANOYL-COA AND NADH
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Deposited on : 2020-06-25
Resolution : 2.20 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

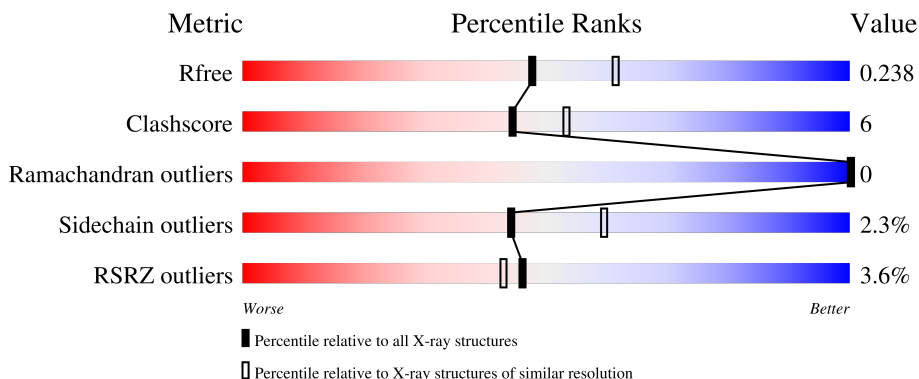
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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}	180053	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AAA	742	3% 86% 11% ••
1	BBB	742	4% 82% 14% •

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 11611 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 Peroxisomal bifunctional enzyme.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AAA	723	Total	C	N	O	S	0	4	0
			5589	3567	986	1013	23			
1	BBB	714	Total	C	N	O	S	0	3	0
			5519	3529	967	1000	23			

There are 40 discrepancies between the modelled and reference sequences:

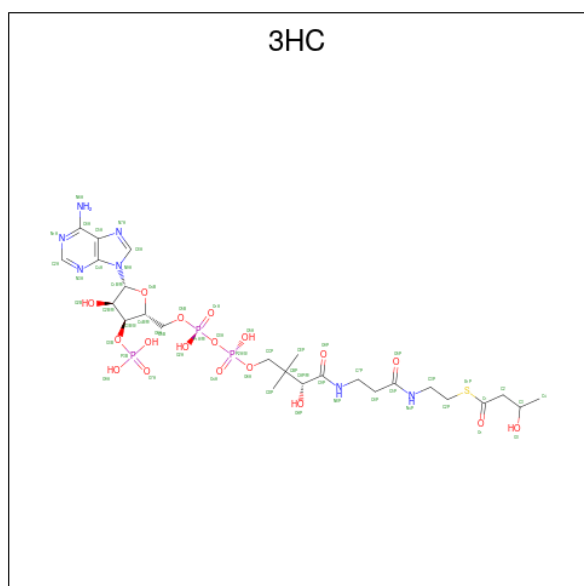
Chain	Residue	Modelled	Actual	Comment	Reference
AAA	-19	MET	-	initiating methionine	UNP P07896
AAA	-18	GLY	-	expression tag	UNP P07896
AAA	-17	SER	-	expression tag	UNP P07896
AAA	-16	SER	-	expression tag	UNP P07896
AAA	-15	HIS	-	expression tag	UNP P07896
AAA	-14	HIS	-	expression tag	UNP P07896
AAA	-13	HIS	-	expression tag	UNP P07896
AAA	-12	HIS	-	expression tag	UNP P07896
AAA	-11	HIS	-	expression tag	UNP P07896
AAA	-10	HIS	-	expression tag	UNP P07896
AAA	-9	SER	-	expression tag	UNP P07896
AAA	-8	SER	-	expression tag	UNP P07896
AAA	-7	GLY	-	expression tag	UNP P07896
AAA	-6	LEU	-	expression tag	UNP P07896
AAA	-5	VAL	-	expression tag	UNP P07896
AAA	-4	PRO	-	expression tag	UNP P07896
AAA	-3	ARG	-	expression tag	UNP P07896
AAA	-2	GLY	-	expression tag	UNP P07896
AAA	-1	SER	-	expression tag	UNP P07896
AAA	0	HIS	-	expression tag	UNP P07896
BBB	-19	MET	-	initiating methionine	UNP P07896
BBB	-18	GLY	-	expression tag	UNP P07896
BBB	-17	SER	-	expression tag	UNP P07896
BBB	-16	SER	-	expression tag	UNP P07896
BBB	-15	HIS	-	expression tag	UNP P07896

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Chain	Residue	Modelled	Actual	Comment	Reference
BBB	-14	HIS	-	expression tag	UNP P07896
BBB	-13	HIS	-	expression tag	UNP P07896
BBB	-12	HIS	-	expression tag	UNP P07896
BBB	-11	HIS	-	expression tag	UNP P07896
BBB	-10	HIS	-	expression tag	UNP P07896
BBB	-9	SER	-	expression tag	UNP P07896
BBB	-8	SER	-	expression tag	UNP P07896
BBB	-7	GLY	-	expression tag	UNP P07896
BBB	-6	LEU	-	expression tag	UNP P07896
BBB	-5	VAL	-	expression tag	UNP P07896
BBB	-4	PRO	-	expression tag	UNP P07896
BBB	-3	ARG	-	expression tag	UNP P07896
BBB	-2	GLY	-	expression tag	UNP P07896
BBB	-1	SER	-	expression tag	UNP P07896
BBB	0	HIS	-	expression tag	UNP P07896

- Molecule 2 is 3-HYDROXYBUTANOYL-COENZYME A (CCD ID: 3HC) (formula: $C_{25}H_{42}N_7O_{18}P_3S$) (labeled as "Ligand of Interest" by depositor).



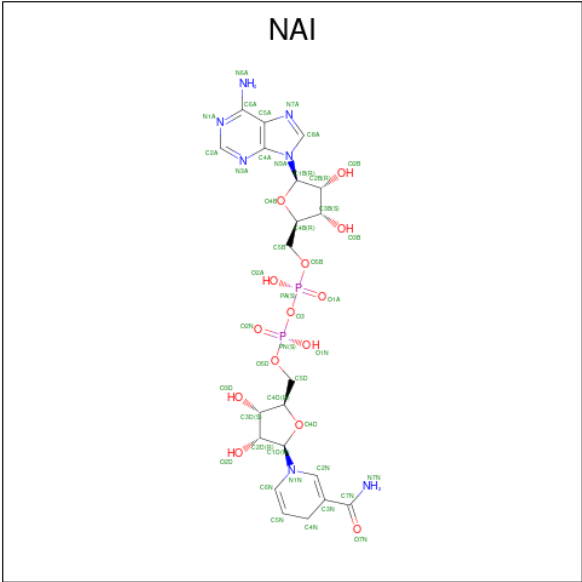
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	AAA	1	Total	C	N	O	P	S	0	0
			54	25	7	18	3	1		
2	BBB	1	Total	C	N	O	P	S	0	0
			54	25	7	18	3	1		

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



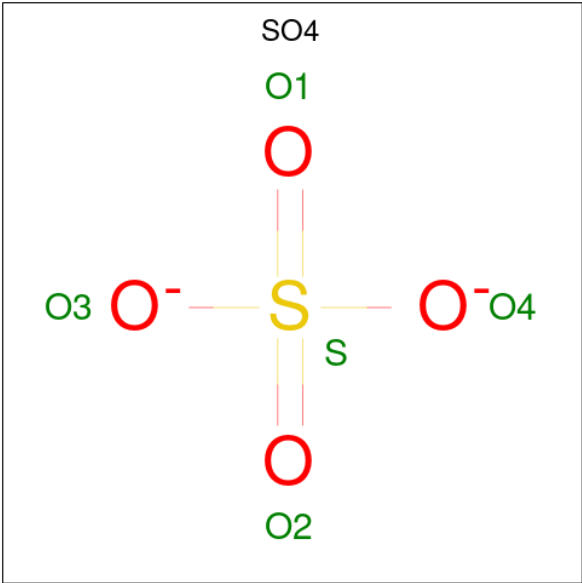
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	AAA	1	Total	C	O	0	0
			6	3	3		
3	AAA	1	Total	C	O	0	0
			6	3	3		
3	AAA	1	Total	C	O	0	0
			6	3	3		
3	AAA	1	Total	C	O	0	0
			6	3	3		
3	AAA	1	Total	C	O	0	0
			6	3	3		
3	BBB	1	Total	C	O	0	0
			6	3	3		

- Molecule 4 is 1,4-DIHYDRONICOTINAMIDE ADENINE DINUCLEOTIDE (CCD ID: NAI) (formula: C₂₁H₂₉N₇O₁₄P₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	AAA	1	Total 44	C 21	N 7	O 14	P 2	0	0
4	BBB	1	Total 44	C 21	N 7	O 14	P 2	0	0

- Molecule 5 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	AAA	1	Total	O	S	0	0
			5	4	1		
5	BBB	1	Total	O	S	0	0
			5	4	1		

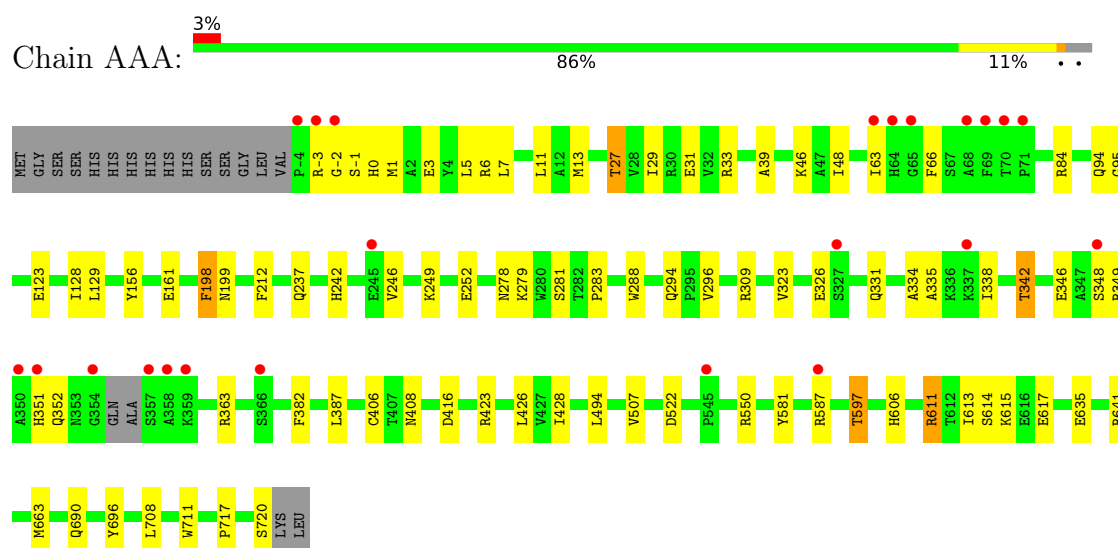
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	AAA	187	Total 187	O 187	0	0
6	BBB	68	Total 68	O 68	0	0

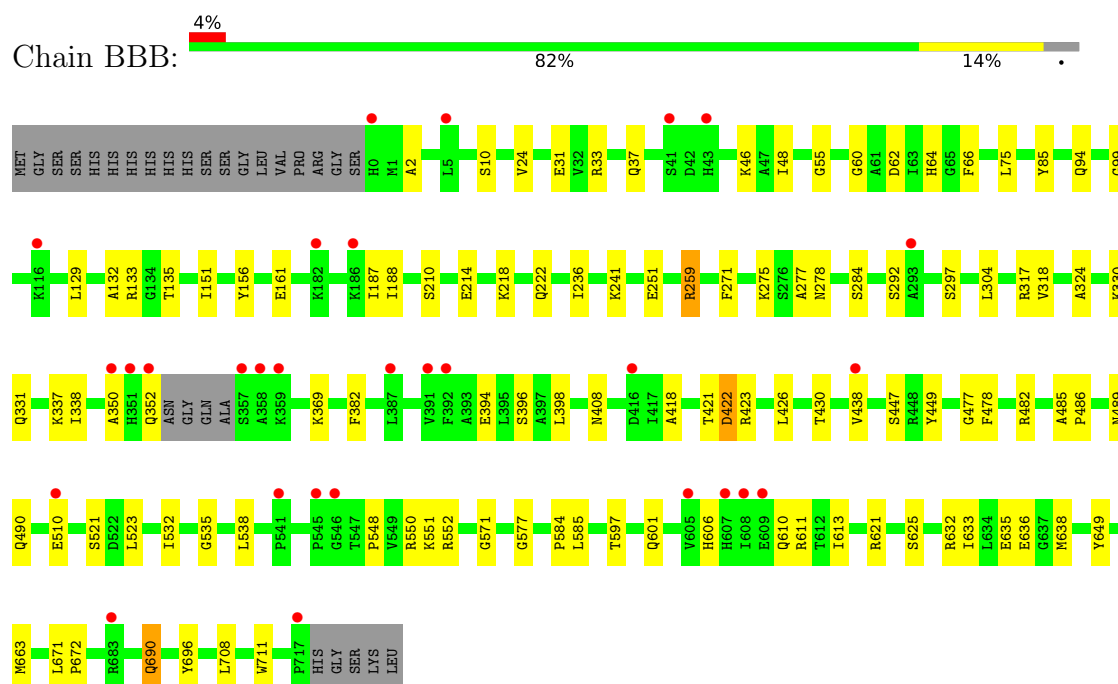
3 Residue-property plots [i](#)

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: Peroxisomal bifunctional enzyme



- Molecule 1: Peroxisomal bifunctional enzyme



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	65.64Å 127.09Å 227.10Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	65.12 – 2.20 65.12 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.5 (65.12-2.20) 99.5 (65.12-2.20)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.35 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.200 , 0.234 (Not available) , 0.238	Depositor DCC
R_{free} test set	4925 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	40.5	Xtriage
Anisotropy	0.111	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 50.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	11611	wwPDB-VP
Average B, all atoms (Å ²)	55.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.48% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: NAI, SO4, 3HC, GOL

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	AAA	0.64	0/5717	1.15	10/7740 (0.1%)
1	BBB	0.58	1/5645 (0.0%)	1.09	7/7645 (0.1%)
All	All	0.61	1/11362 (0.0%)	1.12	17/15385 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BBB	538	LEU	C-O	7.80	1.34	1.24

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AAA	278	ASN	CB-CA-C	-9.93	89.36	110.32
1	BBB	611	ARG	CB-CG-CD	-7.44	94.18	111.30
1	BBB	278	ASN	CB-CA-C	-6.63	99.41	110.68
1	AAA	294	GLN	CB-CA-C	-6.31	99.91	108.68
1	BBB	277	ALA	CA-C-N	6.19	128.85	120.38

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	AAA	5589	0	5692	68	0
1	BBB	5519	0	5630	67	0
2	AAA	54	0	38	7	0
2	BBB	54	0	38	3	0
3	AAA	36	0	48	10	0
3	BBB	6	0	8	1	0
4	AAA	44	0	27	6	0
4	BBB	44	0	27	3	0
5	AAA	5	0	0	0	0
5	BBB	5	0	0	0	0
6	AAA	187	0	0	2	0
6	BBB	68	0	0	1	0
All	All	11611	0	11508	137	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 6.

The worst 5 of 137 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:BBB:46:LYS:HB2	1:BBB:188:ILE:HD11	1.54	0.90
1:BBB:46:LYS:CB	1:BBB:188:ILE:HD11	2.05	0.86
1:AAA:641:ARG:HH12	3:AAA:805:GOL:H32	1.43	0.82
1:AAA:288:TRP:HE1	3:AAA:803:GOL:H11	1.45	0.81
1:AAA:720:SER:C	3:AAA:807:GOL:O2	2.24	0.80

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	AAA	723/742 (97%)	698 (96%)	25 (4%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BBB	713/742 (96%)	683 (96%)	30 (4%)	0	100	100
All	All	1436/1484 (97%)	1381 (96%)	55 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	AAA	597/609 (98%)	587 (98%)	10 (2%)	53	69
1	BBB	590/609 (97%)	573 (97%)	17 (3%)	37	51
All	All	1187/1218 (98%)	1160 (98%)	27 (2%)	44	59

5 of 27 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	BBB	292	SER
1	BBB	337	LYS
1	BBB	610	GLN
1	BBB	330	LYS
1	BBB	338	ILE

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

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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

13 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	GOL	AAA	804	-	5,5,5	0.13	0	5,5,5	0.42	0
5	SO4	BBB	804	-	4,4,4	0.35	0	6,6,6	0.09	0
5	SO4	AAA	809	-	4,4,4	0.29	0	6,6,6	0.22	0
3	GOL	AAA	802	-	5,5,5	0.11	0	5,5,5	0.51	0
3	GOL	AAA	805	-	5,5,5	0.08	0	5,5,5	0.56	0
3	GOL	AAA	808	-	5,5,5	0.10	0	5,5,5	0.33	0
2	3HC	AAA	801	-	54,56,56	0.56	0	76,83,83	0.79	3 (3%)
3	GOL	AAA	803	-	5,5,5	0.13	0	5,5,5	0.61	0
4	NAI	AAA	806	-	47,48,48	0.46	0	64,73,73	0.77	1 (1%)
4	NAI	BBB	803	-	47,48,48	0.48	0	64,73,73	0.60	0
3	GOL	BBB	802	-	5,5,5	0.10	0	5,5,5	0.30	0
2	3HC	BBB	801	-	54,56,56	0.49	0	76,83,83	0.66	1 (1%)
3	GOL	AAA	807	-	5,5,5	0.12	0	5,5,5	0.37	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
3	GOL	AAA	804	-	-	2/4/4/4	-
3	GOL	AAA	802	-	-	2/4/4/4	-
3	GOL	AAA	805	-	-	4/4/4/4	-
3	GOL	AAA	808	-	-	2/4/4/4	-
2	3HC	AAA	801	-	-	20/55/71/71	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	AAA	803	-	-	4/4/4/4	-
4	NAI	AAA	806	-	-	9/29/72/72	0/5/5/5
4	NAI	BBB	803	-	-	5/29/72/72	0/5/5/5
3	GOL	BBB	802	-	-	2/4/4/4	-
2	3HC	BBB	801	-	-	13/55/71/71	0/3/3/3
3	GOL	AAA	807	-	-	0/4/4/4	-

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BBB	801	3HC	P3B-O3B-C3B	-3.26	114.73	123.43
2	AAA	801	3HC	P3B-O3B-C3B	-3.13	115.08	123.43
2	AAA	801	3HC	C3B-C2B-C1B	2.56	105.52	99.89
4	AAA	806	NAI	O2A-PA-O1A	2.20	122.67	112.44
2	AAA	801	3HC	C7P-C6P-C5P	-2.19	108.74	112.39

There are no chirality outliers.

5 of 63 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	AAA	801	3HC	P1A-O3A-P2A-O6A
2	AAA	801	3HC	CCP-O6A-P2A-O3A
2	AAA	801	3HC	CCP-O6A-P2A-O4A
2	AAA	801	3HC	CCP-O6A-P2A-O5A
2	AAA	801	3HC	N8P-C9P-CAP-OAP

There are no ring outliers.

10 monomers are involved in 30 short contacts:

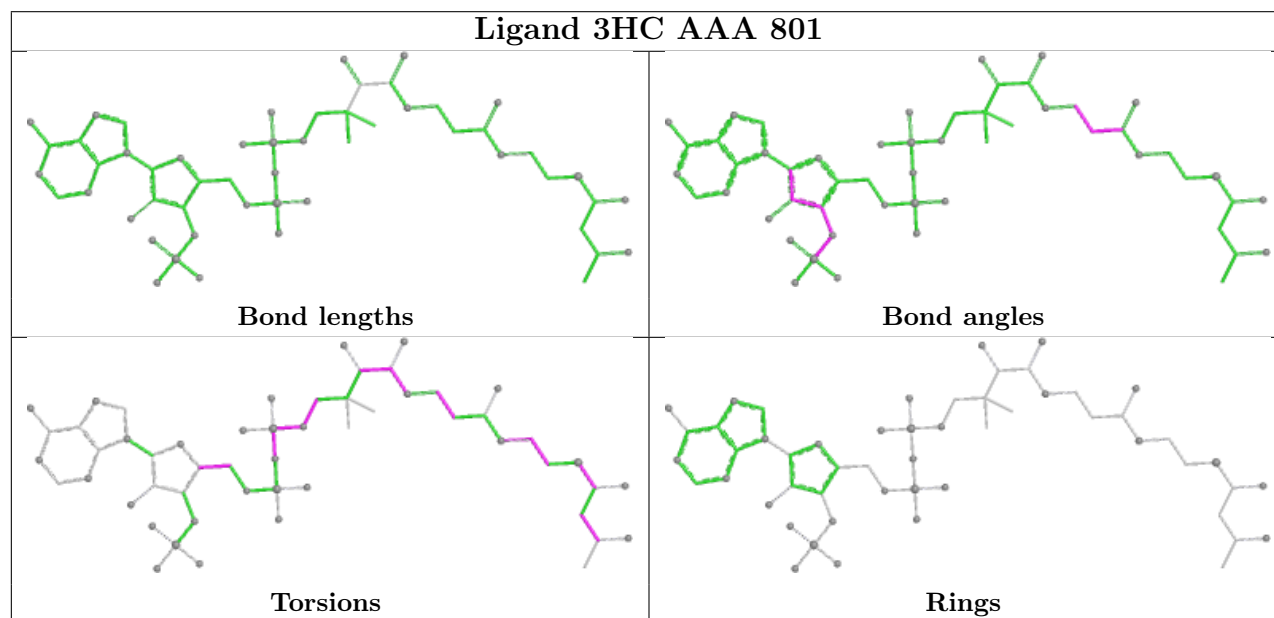
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	AAA	802	GOL	3	0
3	AAA	805	GOL	3	0
3	AAA	808	GOL	1	0
2	AAA	801	3HC	7	0
3	AAA	803	GOL	2	0
4	AAA	806	NAI	6	0
4	BBB	803	NAI	3	0
3	BBB	802	GOL	1	0
2	BBB	801	3HC	3	0

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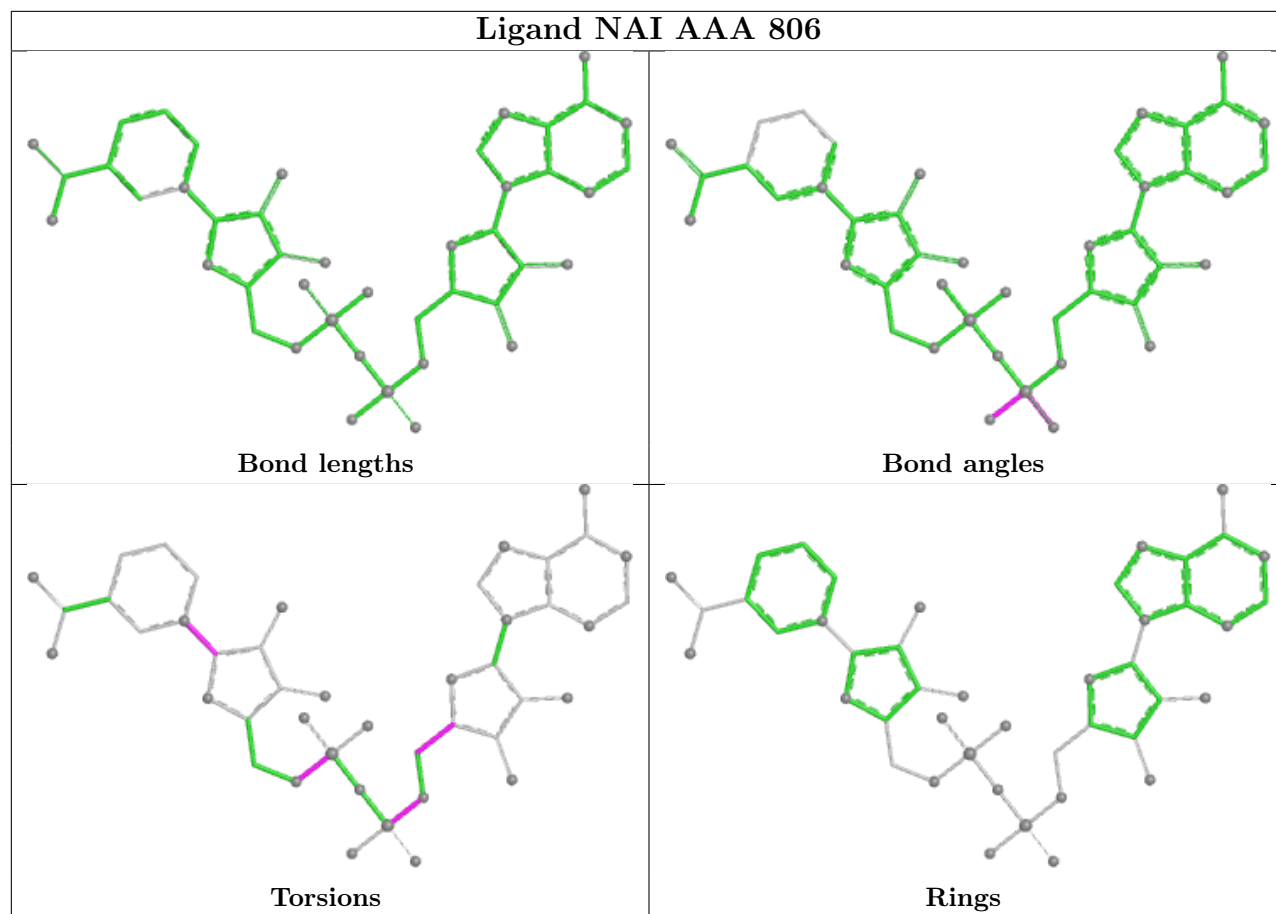
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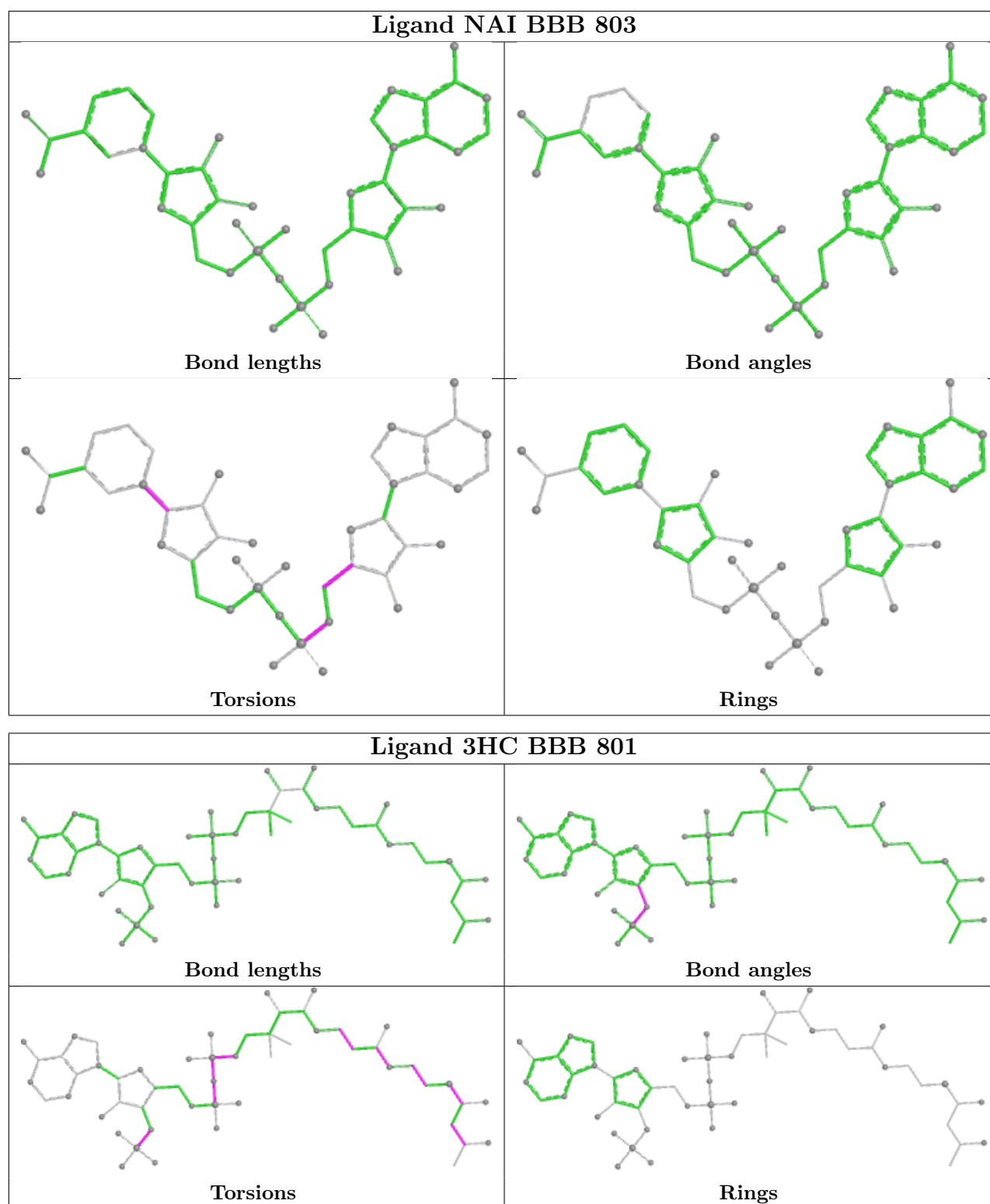
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	AAA	807	GOL	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



Ligand NAI AAA 806





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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
1	AAA	723/742 (97%)	-0.06	23 (3%)	50	47	17, 41, 94, 148	4 (0%)
1	BBB	714/742 (96%)	0.29	29 (4%)	41	38	18, 60, 102, 143	3 (0%)
All	All	1437/1484 (96%)	0.11	52 (3%)	46	43	17, 50, 99, 148	7 (0%)

The worst 5 of 52 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AAA	354	GLY	6.2
1	AAA	-4	PRO	5.6
1	BBB	0	HIS	4.7
1	BBB	357	SER	4.1
1	BBB	545	PRO	4.1

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 oligosaccharides in this entry.

6.4 Ligands [i](#)

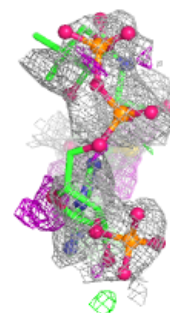
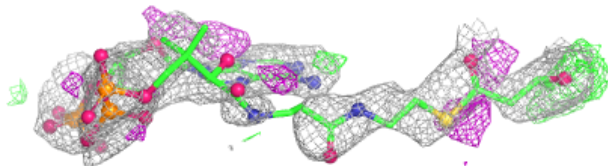
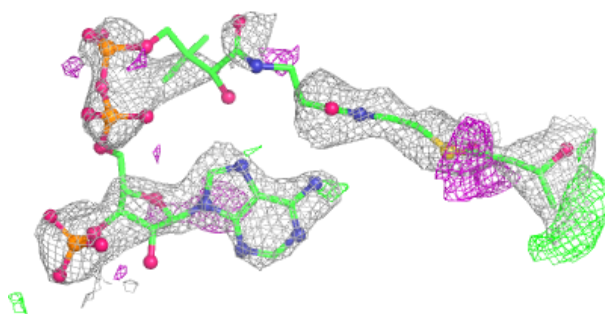
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	3HC	AAA	801	54/54	0.75	0.19	43,119,156,160	0
3	GOL	AAA	805	6/6	0.75	0.21	79,83,83,86	0
5	SO4	BBB	804	5/5	0.75	0.15	77,86,91,94	0
3	GOL	AAA	807	6/6	0.78	0.19	62,72,77,80	0
3	GOL	AAA	803	6/6	0.82	0.18	70,76,79,80	0
3	GOL	BBB	802	6/6	0.85	0.21	64,79,82,83	0
3	GOL	AAA	808	6/6	0.85	0.19	68,75,81,86	0
4	NAI	AAA	806	44/44	0.86	0.15	42,54,69,80	0
2	3HC	BBB	801	54/54	0.88	0.13	50,72,82,85	0
3	GOL	AAA	802	6/6	0.89	0.14	54,65,66,67	0
5	SO4	AAA	809	5/5	0.92	0.11	47,48,49,53	0
4	NAI	BBB	803	44/44	0.92	0.10	45,58,63,66	0
3	GOL	AAA	804	6/6	0.93	0.12	49,55,57,59	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.

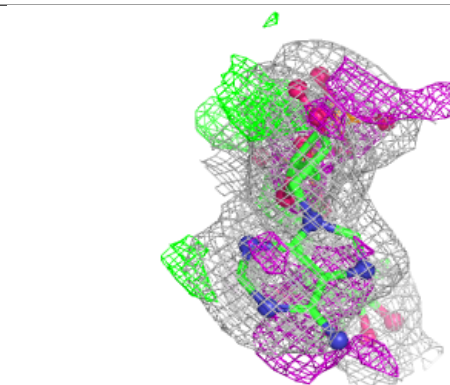
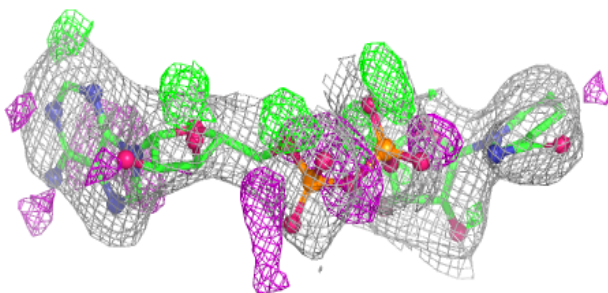
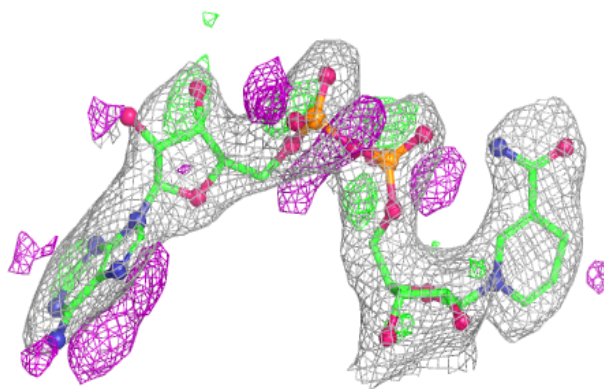
Electron density around 3HC AAA 801:

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

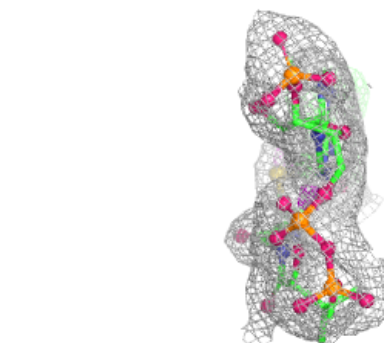
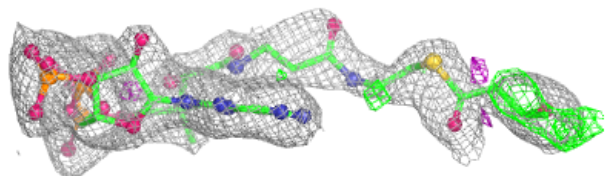
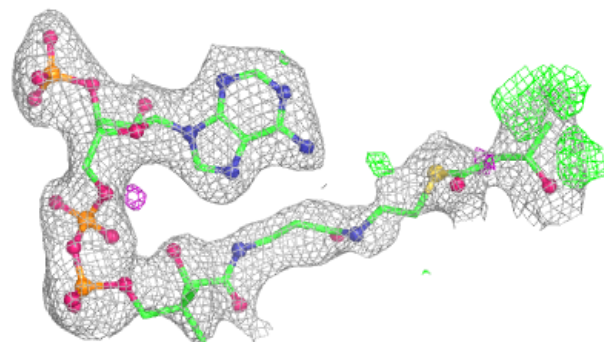


Electron density around NAI AAA 806:

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

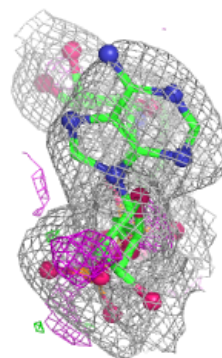
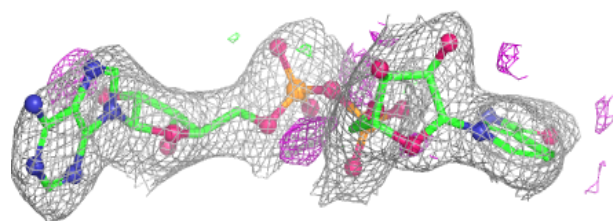
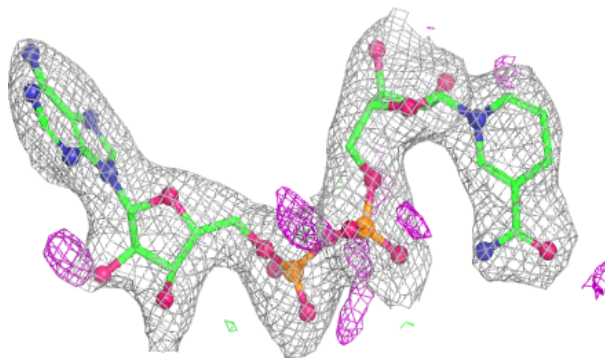
**Electron density around 3HC BBB 801:**

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



Electron density around NAI BBB 803:

$2mF_o-DF_c$ (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.