



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 6, 2026 – 05:18 PM UTC

PDB ID : 9IE4 / pdb_00009ie4
Title : Human Deoxyhypusine Synthase Fragment Screening Campaign - ligand VT00229
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Deposited on : 2025-02-15
Resolution : 1.34 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

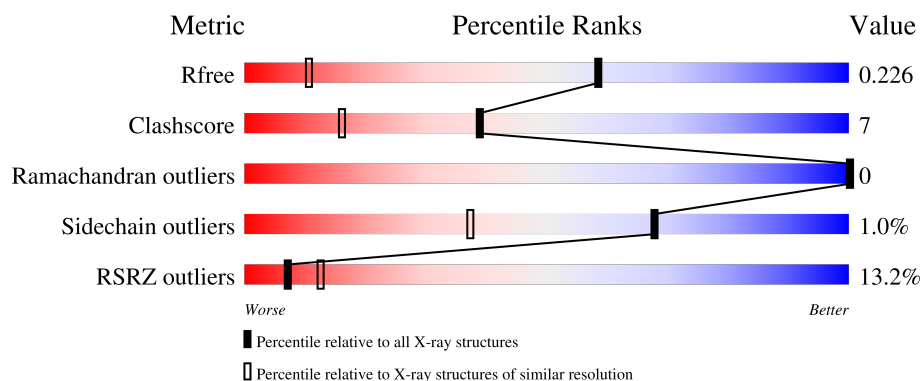
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.34 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	2194 (1.36-1.32)
Clashscore	190562	2222 (1.36-1.32)
Ramachandran outliers	187476	2197 (1.36-1.32)
Sidechain outliers	187428	2197 (1.36-1.32)
RSRZ outliers	180081	2193 (1.36-1.32)

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	A	369	<div> <div>13%</div> <div>85%</div> <div>9%</div> <div>• 5%</div> </div>
1	B	369	<div> <div>12%</div> <div>87%</div> <div>8%</div> <div>5%</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	A1I3J	A	403	-	-	X	-
3	A1I3J	A	404	-	X	X	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6208 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 Deoxyhypusine synthase.

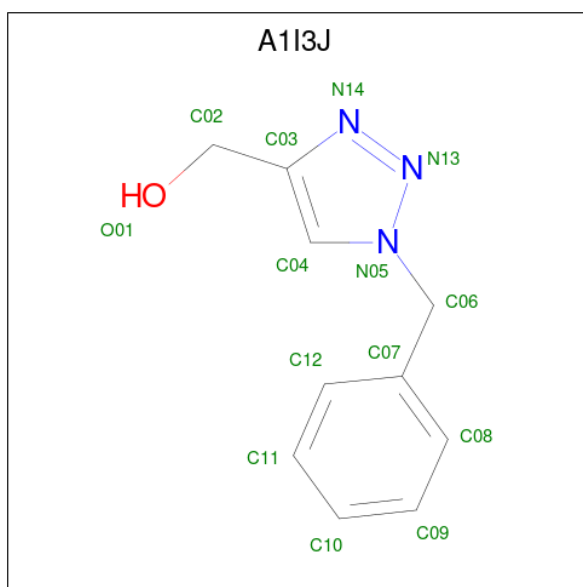
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	349	Total	C	N	O	S	0	9	0
			2770	1767	468	518	17			
1	B	352	Total	C	N	O	S	0	6	0
			2784	1770	474	523	17			

- Molecule 2 is NICOTINAMIDE-ADENINE-DINUCLEOTIDE (CCD ID: NAD) (formula: $C_{21}H_{27}N_7O_{14}P_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	0	0
			44	21	7	14	2		
2	B	1	Total	C	N	O	P	0	0
			44	21	7	14	2		

- Molecule 3 is [1-(phenylmethyl)-1,2,3-triazol-4-yl]methanol (CCD ID: A1I3J) (formula: $C_{10}H_{11}N_3O$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			14	10	3	1		
3	A	1	Total	C	N	O	0	0
			14	10	3	1		
3	A	1	Total	C	N	O	0	0
			14	10	3	1		
3	B	1	Total	C	N	O	0	0
			14	10	3	1		
3	B	1	Total	C	N	O	0	0
			14	10	3	1		
3	B	1	Total	C	N	O	0	0
			14	10	3	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	247	Total	O	0	1
			248	248		
4	B	234	Total	O	0	0
			234	234		

4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	105.07Å 105.07Å 160.30Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	46.08 – 1.34 46.08 – 1.34	Depositor EDS
% Data completeness (in resolution range)	95.2 (46.08-1.34) 95.3 (46.08-1.34)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.95 (at 1.34Å)	Xtriage
Refinement program	REFMAC 5.8.0419	Depositor
R, R_{free}	0.206 , 0.221 0.214 , 0.226	Depositor DCC
R_{free} test set	10819 reflections (4.72%)	wwPDB-VP
Wilson B-factor (Å ²)	26.0	Xtriage
Anisotropy	0.160	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 41.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.014 for -h,-k,l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6208	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.12% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: A1I3J, NAD, CSS

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	1.27	9/2837 (0.3%)	1.40	19/3847 (0.5%)
1	B	1.24	8/2848 (0.3%)	1.24	2/3860 (0.1%)
All	All	1.25	17/5685 (0.3%)	1.32	21/7707 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	29	THR	C-N	-19.55	1.07	1.33
1	B	89	GLN	C-N	-15.35	1.11	1.33
1	A	285[A]	VAL	CA-C	11.46	1.67	1.52
1	A	285[B]	VAL	CA-C	11.46	1.67	1.52
1	A	275[A]	CYS	N-CA	10.87	1.59	1.46

The worst 5 of 21 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	285[A]	VAL	O-C-N	-10.11	112.06	121.87
1	A	285[B]	VAL	O-C-N	-10.11	112.06	121.87
1	B	65	GLN	CG-CD-NE2	-8.93	103.00	116.40
1	A	229	ILE	O-C-N	8.49	126.72	121.37
1	A	274	LYS	CA-C-N	8.46	136.82	121.94

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	275[A]	CYS	Mainchain
1	A	275[B]	CYS	Mainchain
1	A	286[B]	VAL	Mainchain

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	2770	0	2762	45	2
1	B	2784	0	2769	29	0
2	A	44	0	26	0	0
2	B	44	0	26	0	0
3	A	42	0	0	22	1
3	B	42	0	0	7	2
4	A	248	0	0	6	0
4	B	234	0	0	8	1
All	All	6208	0	5583	77	3

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 7.

The worst 5 of 77 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:A:148:LEU:CB	3:A:404:A1I3J:C11	1.75	1.57
1:A:148:LEU:HB2	3:A:404:A1I3J:C11	1.00	1.47
1:A:148:LEU:HB2	3:A:404:A1I3J:C10	1.54	1.35
1:A:148:LEU:HD12	3:A:404:A1I3J:C11	1.70	1.21
1:A:148:LEU:CD1	3:A:404:A1I3J:C11	2.22	1.17

All (3) 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)
1:A:64:GLN:OE1	3:B:404:A1I3J:O01[4_555]	1.29	0.91
1:A:64:GLN:CD	3:B:404:A1I3J:O01[4_555]	1.93	0.27
3:A:403:A1I3J:C09	4:B:727:HOH:O[4_555]	1.98	0.22

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	353/369 (96%)	347 (98%)	6 (2%)	0	100	100
1	B	355/369 (96%)	349 (98%)	6 (2%)	0	100	100
All	All	708/738 (96%)	696 (98%)	12 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	299/309 (97%)	296 (99%)	3 (1%)	68	37
1	B	301/309 (97%)	297 (99%)	4 (1%)	61	26
All	All	600/618 (97%)	593 (99%)	7 (1%)	68	30

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	24	LEU

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Mol	Chain	Res	Type
1	B	47	GLU
1	B	115	THR
1	B	95	THR
1	A	115	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	84	HIS
1	B	37	ASN
1	B	228	HIS
1	B	310	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	CSS	A	177	1	4,6,7	0.97	0	2,6,8	0.17	0
1	CSS	B	177	1	4,6,7	0.71	0	2,6,8	1.17	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
1	CSS	A	177	1	-	0/1/5/7	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CSS	B	177	1	-	0/1/5/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 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	A1I3J	B	403	-	15,15,15	1.44	2 (13%)	19,19,19	1.18	1 (5%)
2	NAD	A	401	-	46,48,48	0.92	3 (6%)	64,73,73	0.98	4 (6%)
2	NAD	B	401	-	46,48,48	0.73	1 (2%)	64,73,73	0.67	2 (3%)
3	A1I3J	A	403	-	15,15,15	1.43	4 (26%)	19,19,19	1.95	5 (26%)
3	A1I3J	B	404	-	15,15,15	1.24	2 (13%)	19,19,19	2.41	5 (26%)
3	A1I3J	A	404	-	15,15,15	3.34	8 (53%)	19,19,19	2.92	10 (52%)
3	A1I3J	B	402	-	15,15,15	1.59	3 (20%)	19,19,19	1.52	4 (21%)
3	A1I3J	A	402	-	15,15,15	1.62	3 (20%)	19,19,19	3.37	4 (21%)

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	A1I3J	B	403	-	-	2/6/6/6	0/2/2/2
2	NAD	A	401	-	-	5/30/62/62	0/5/5/5
2	NAD	B	401	-	-	5/30/62/62	0/5/5/5
3	A1I3J	A	403	-	-	4/6/6/6	0/2/2/2
3	A1I3J	B	404	-	-	4/6/6/6	0/2/2/2
3	A1I3J	A	404	-	-	2/6/6/6	0/2/2/2
3	A1I3J	B	402	-	-	2/6/6/6	0/2/2/2
3	A1I3J	A	402	-	-	0/6/6/6	0/2/2/2

The worst 5 of 26 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	404	A1I3J	C12-C07	6.44	1.51	1.38
3	A	404	A1I3J	C09-C10	5.99	1.51	1.38
3	A	404	A1I3J	C11-C12	4.99	1.47	1.38
3	A	402	A1I3J	C02-C03	4.61	1.53	1.50
3	A	404	A1I3J	C11-C10	4.53	1.48	1.38

The worst 5 of 35 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	402	A1I3J	O01-C02-C03	-13.12	84.49	111.79
3	A	404	A1I3J	C10-C11-C12	-7.78	110.64	120.24
3	B	404	A1I3J	C06-N05-N13	5.56	127.84	120.03
3	A	403	A1I3J	C06-N05-N13	5.16	127.28	120.03
3	A	404	A1I3J	C06-N05-N13	4.27	126.03	120.03

There are no chirality outliers.

5 of 24 torsion outliers are listed below:

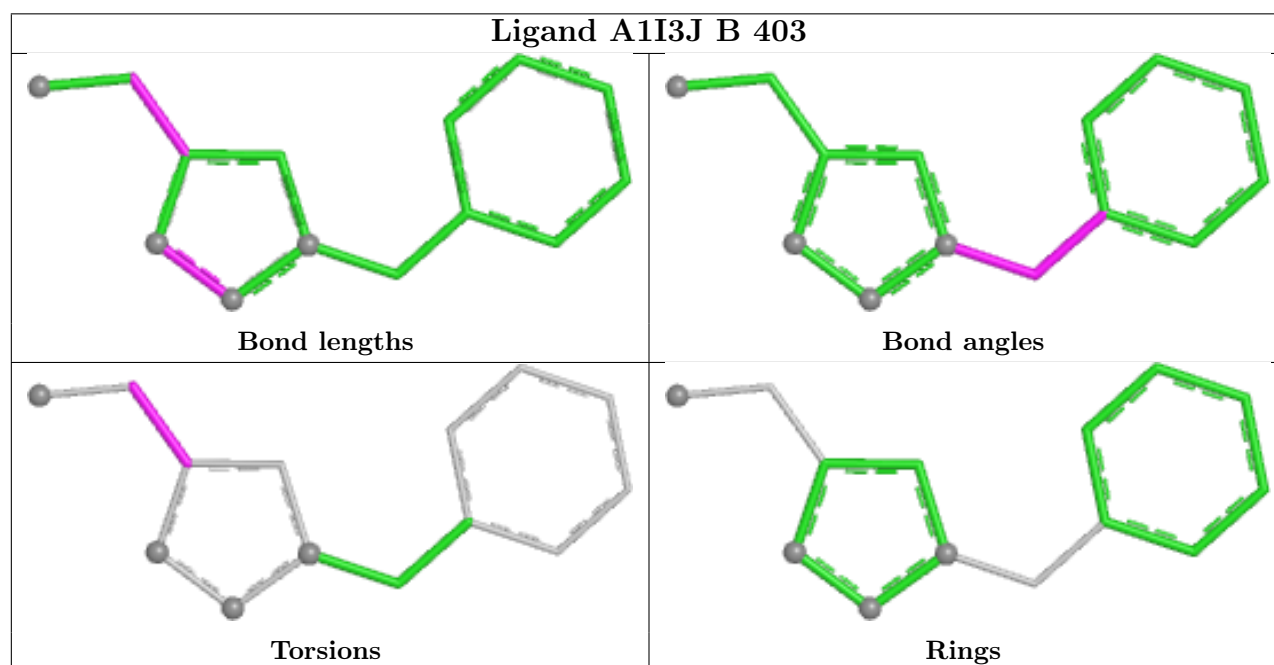
Mol	Chain	Res	Type	Atoms
2	A	401	NAD	C5D-O5D-PN-O1N
2	B	401	NAD	C5D-O5D-PN-O3
2	B	401	NAD	C5D-O5D-PN-O1N
3	A	403	A1I3J	O01-C02-C03-C04
3	A	403	A1I3J	O01-C02-C03-N14

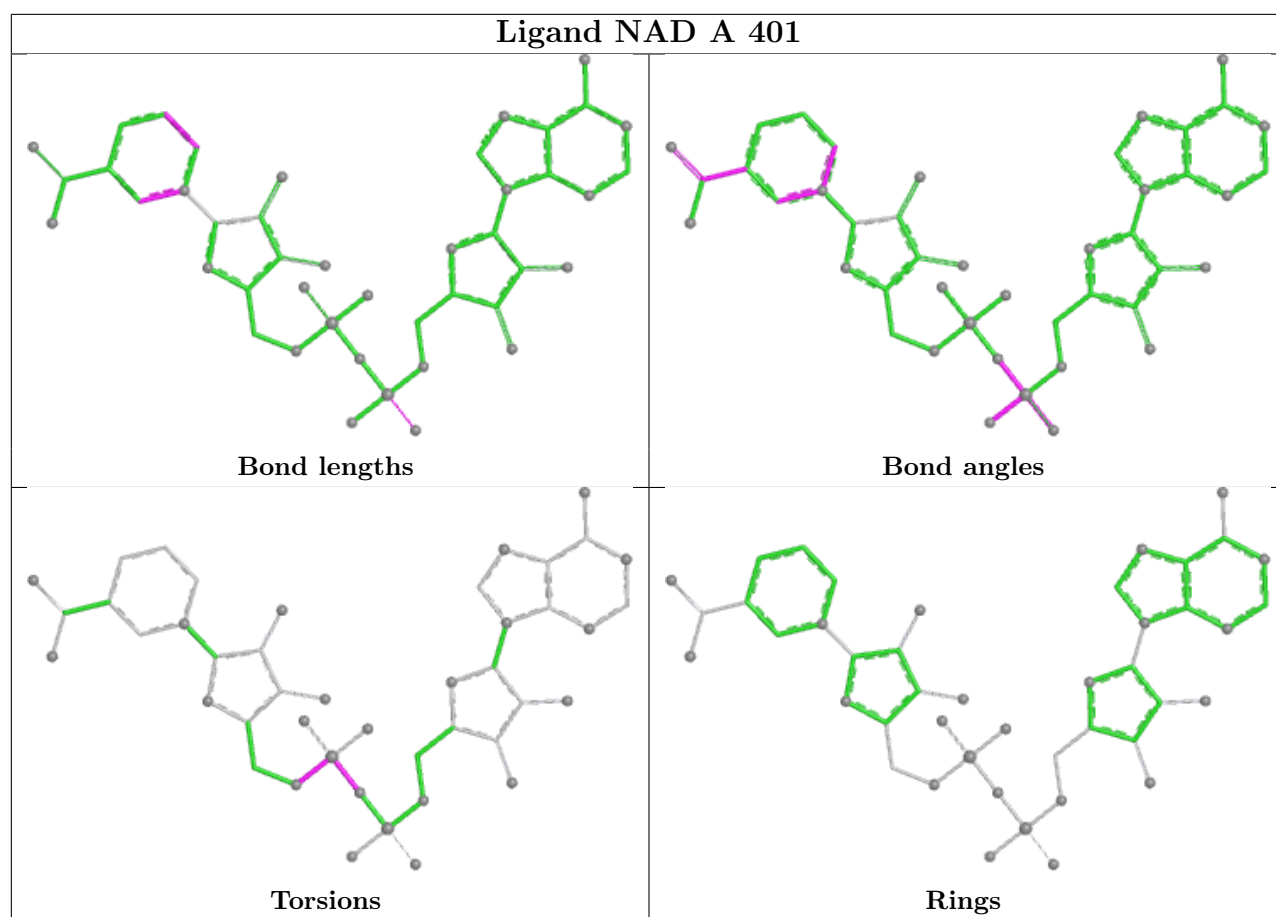
There are no ring outliers.

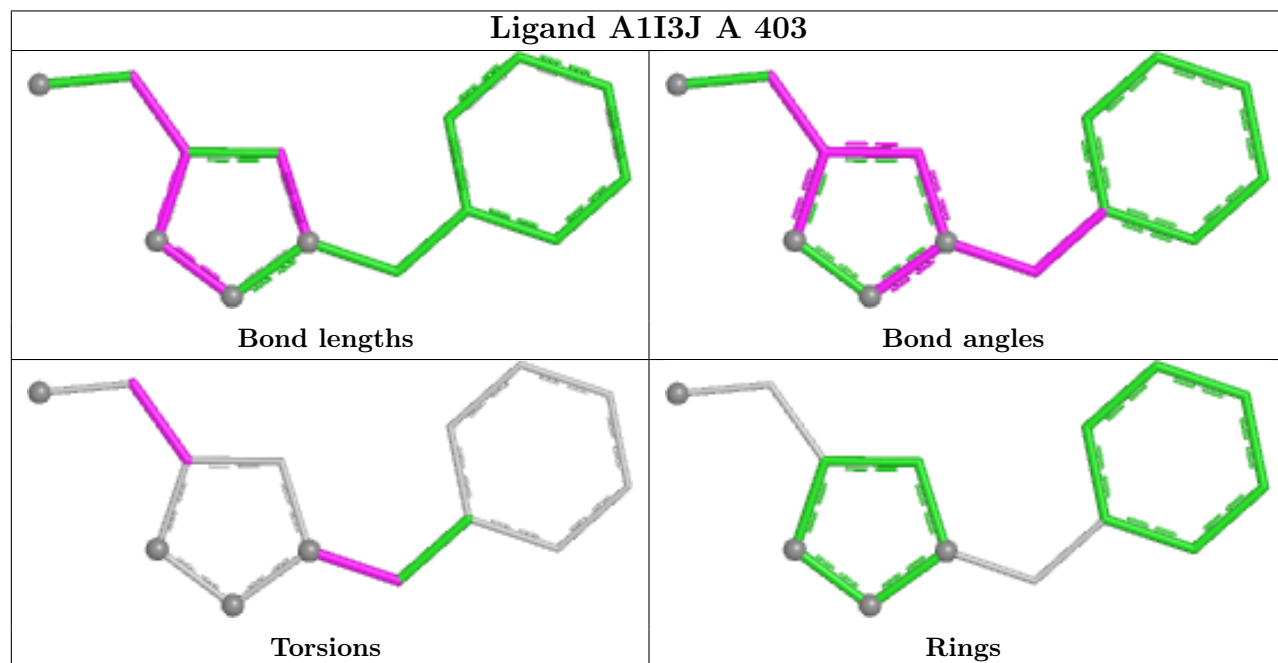
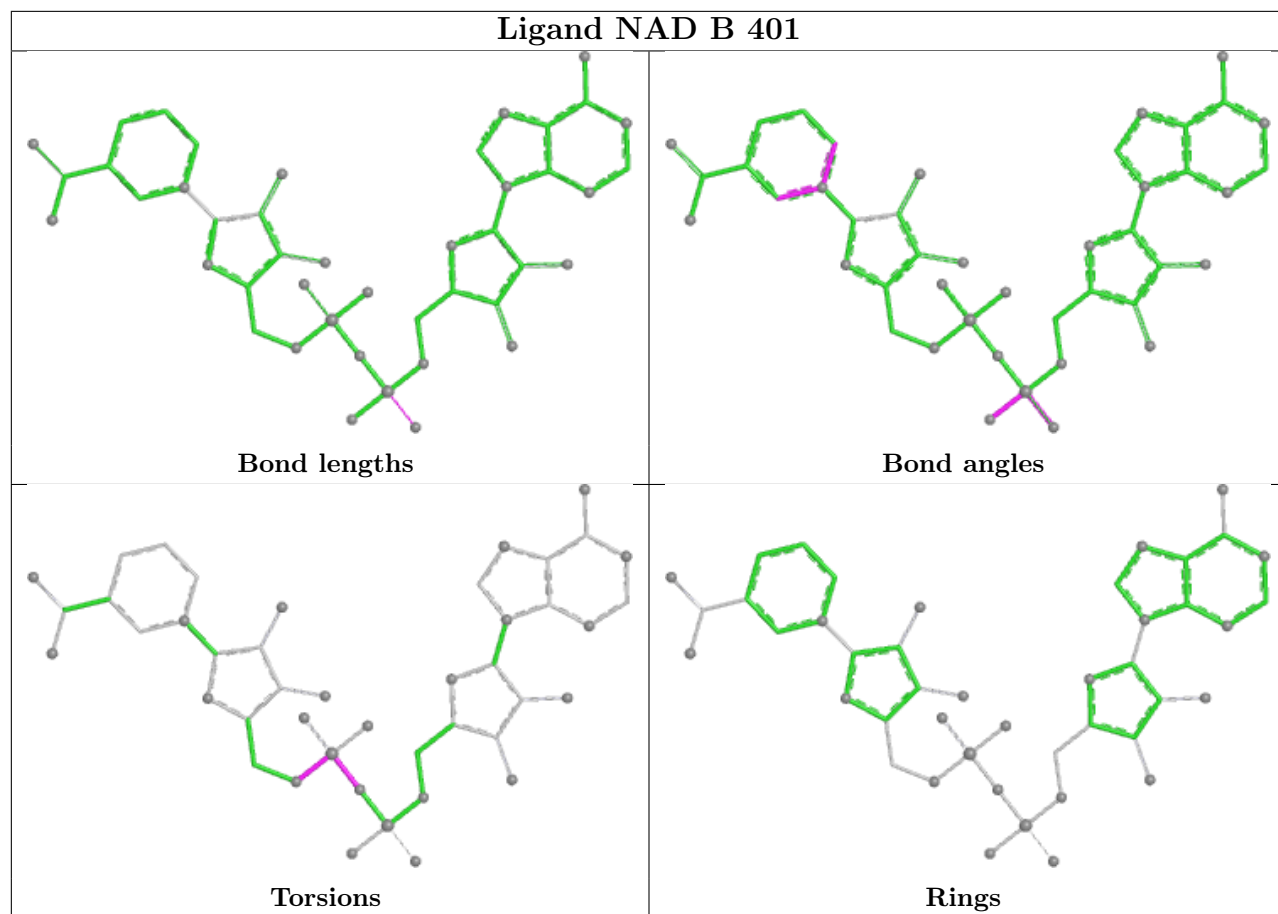
6 monomers are involved in 32 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	403	A1I3J	5	0
3	A	403	A1I3J	6	1
3	B	404	A1I3J	1	2
3	A	404	A1I3J	15	0
3	B	402	A1I3J	1	0
3	A	402	A1I3J	1	0

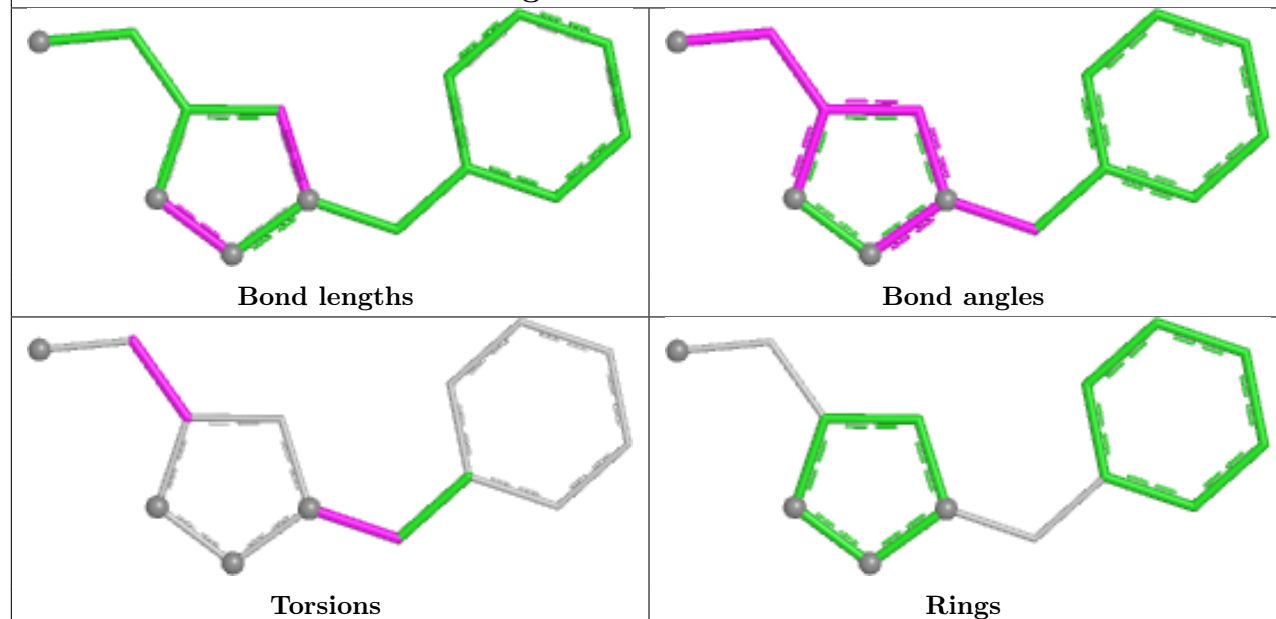
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.



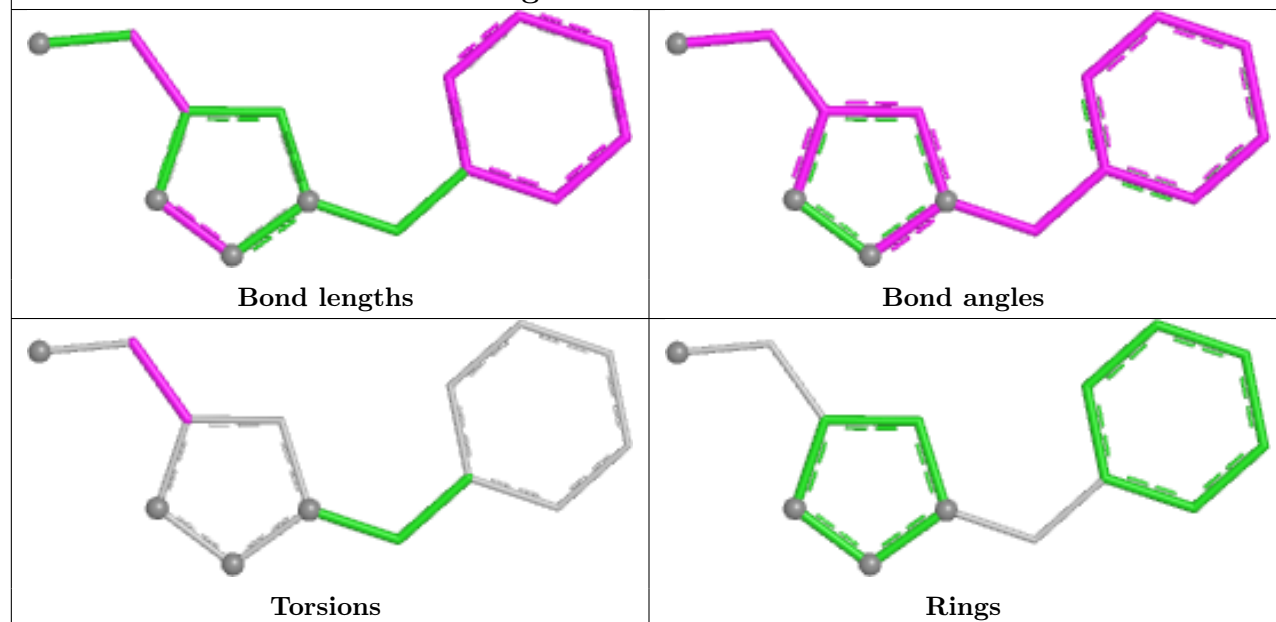


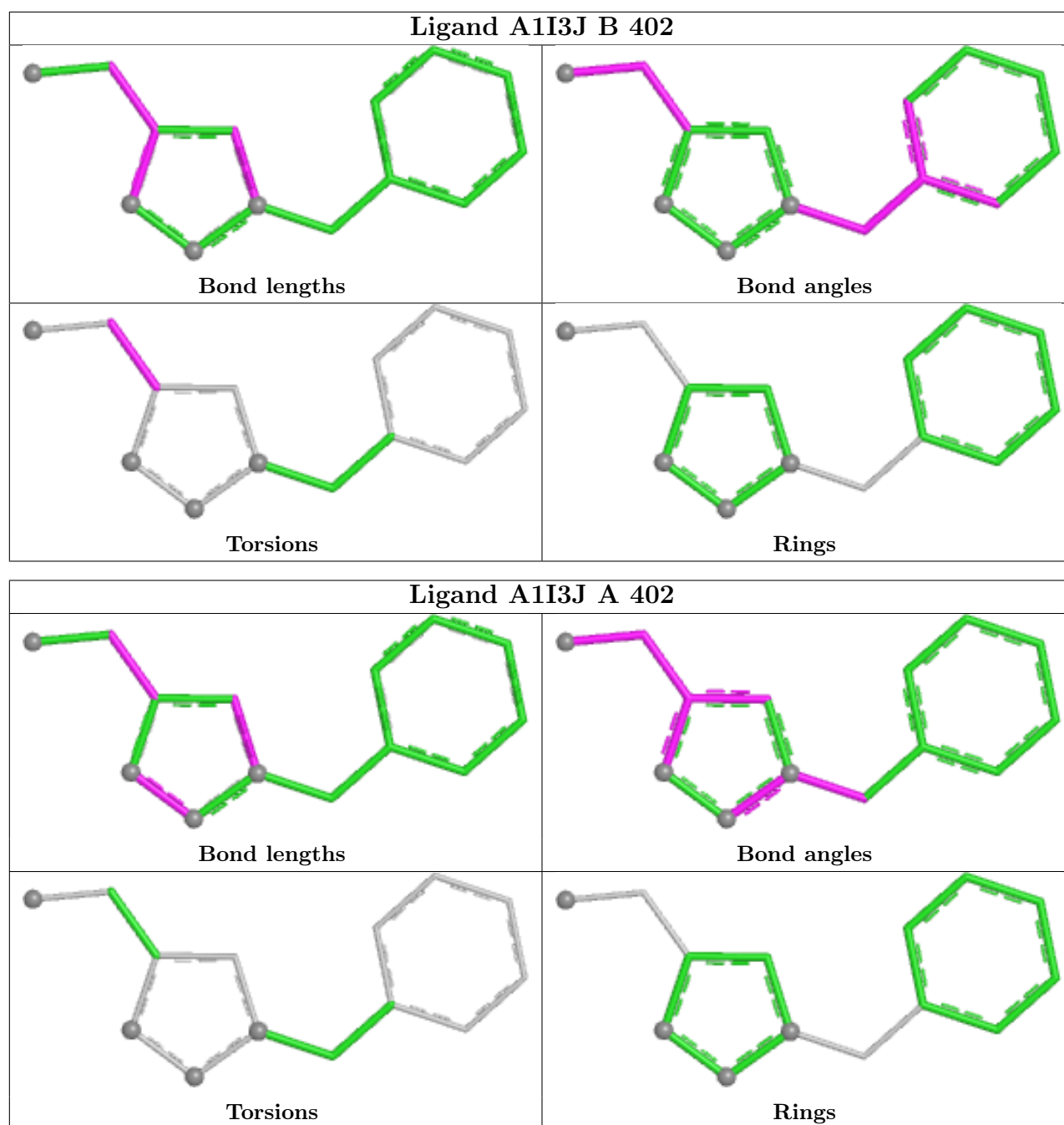


Ligand A1I3J B 404



Ligand A1I3J A 404





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	89:GLN	C	90:SER	N	1.11
1	B	29:THR	C	30:GLN	N	1.07

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	A	348/369 (94%)	1.10	48 (13%) 6 12	12, 28, 68, 118	12 (3%)
1	B	351/369 (95%)	1.28	44 (12%) 8 13	14, 28, 48, 86	7 (1%)
All	All	699/738 (94%)	1.19	92 (13%) 7 12	12, 28, 55, 118	19 (2%)

The worst 5 of 92 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	24	LEU	13.5
1	B	18	LEU	12.7
1	B	12	GLY	12.5
1	B	17	VAL	12.3
1	B	13	ALA	12.2

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	CSS	B	177	7/8	0.91	0.14	36,37,51,93	0
1	CSS	A	177	7/8	0.93	0.10	26,30,42,54	0

6.3 Carbohydrates [i](#)

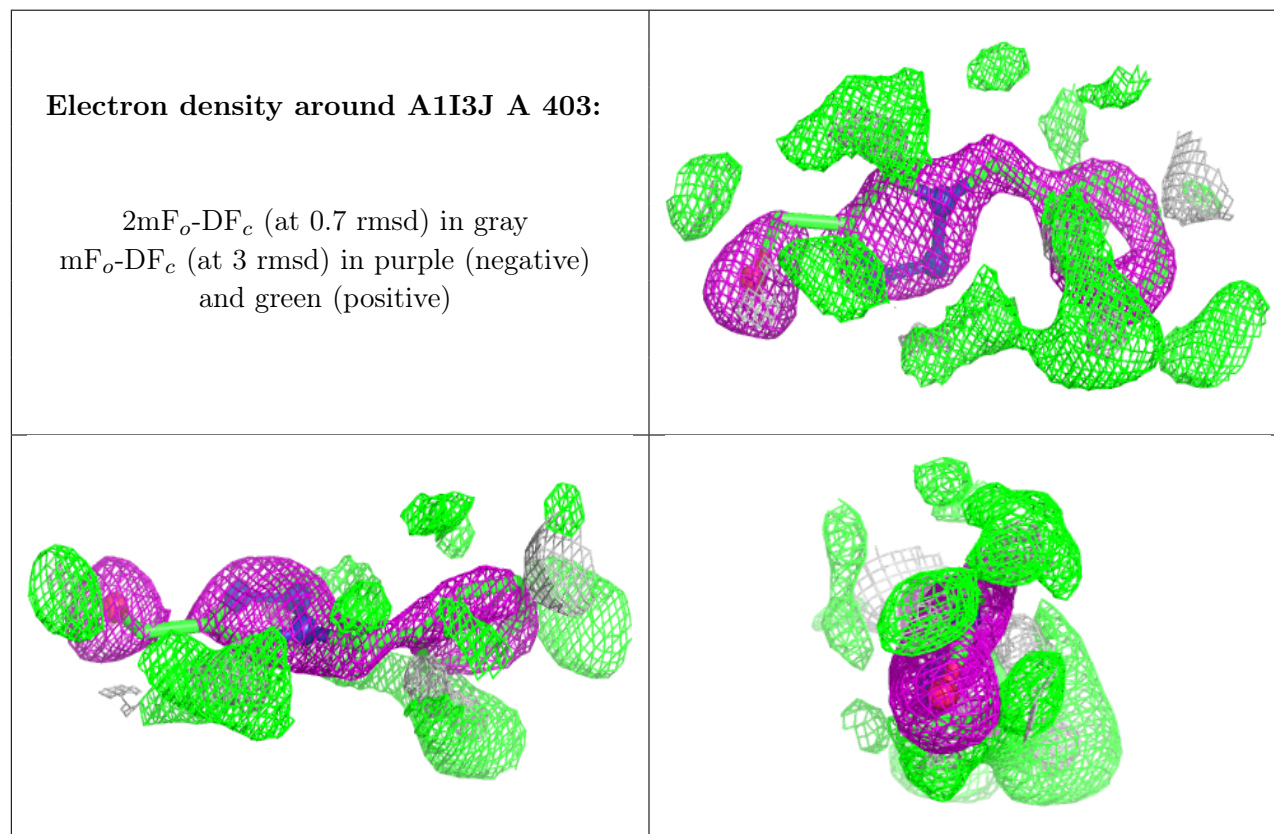
There are no oligosaccharides in this entry.

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.

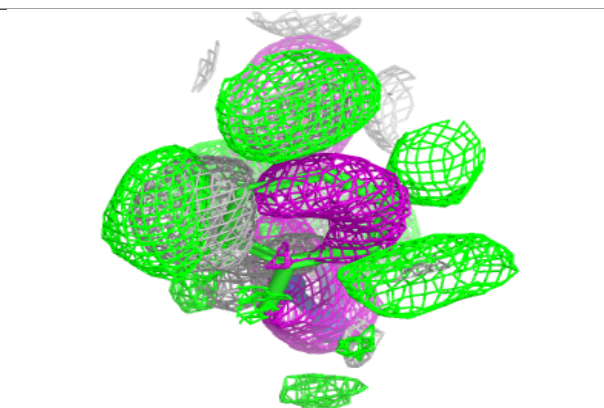
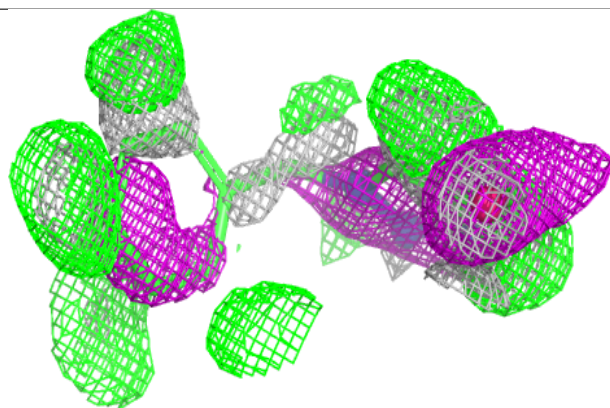
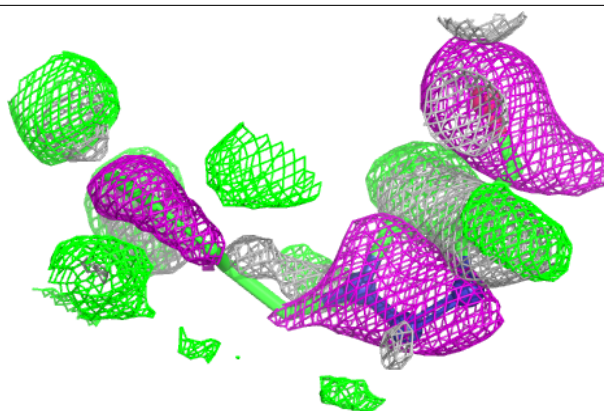
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	A1I3J	A	403	14/14	0.05	0.32	20,20,20,20	14
3	A1I3J	B	403	14/14	0.11	0.37	20,20,20,20	14
3	A1I3J	B	404	14/14	0.25	0.33	20,20,20,20	14
3	A1I3J	A	404	14/14	0.27	0.28	20,20,20,20	14
3	A1I3J	B	402	14/14	0.35	0.33	20,20,20,20	14
3	A1I3J	A	402	14/14	0.53	0.25	20,20,20,20	14
2	NAD	A	401	44/44	0.97	0.06	19,22,31,37	0
2	NAD	B	401	44/44	0.97	0.07	19,23,31,35	44

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.

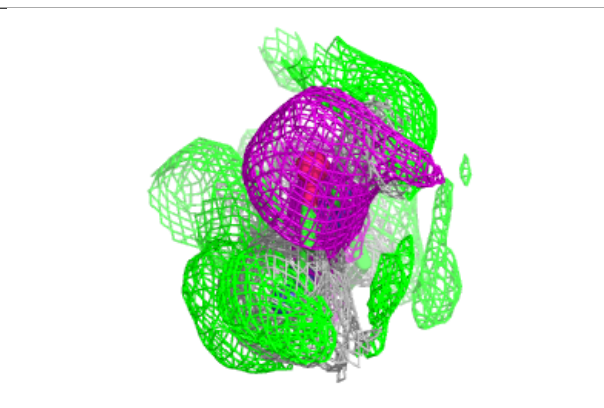
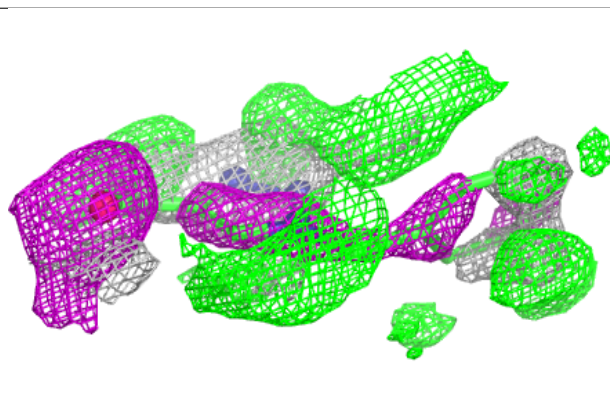
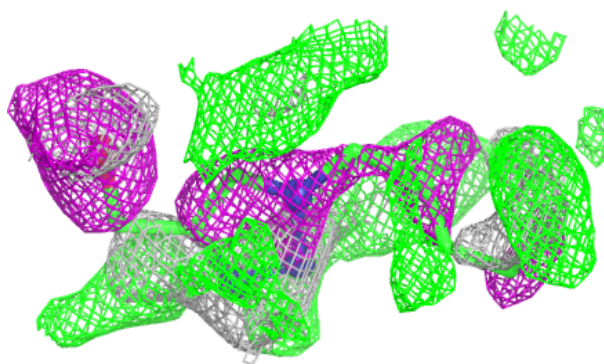


Electron density around A1I3J B 403:

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

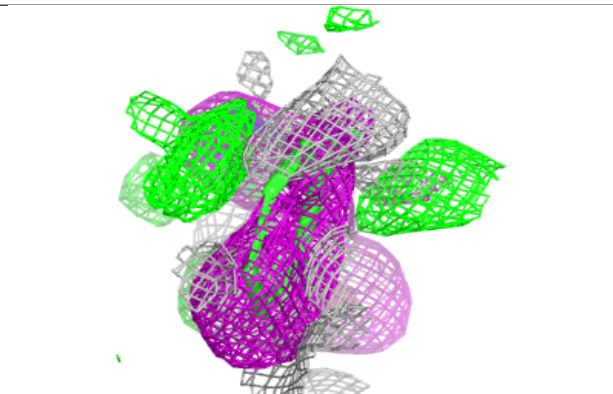
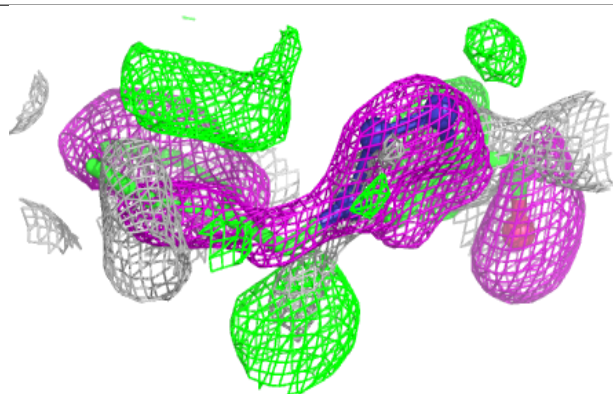
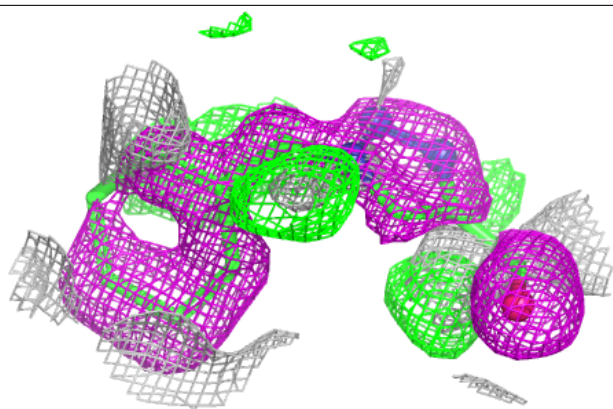
**Electron density around A1I3J B 404:**

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

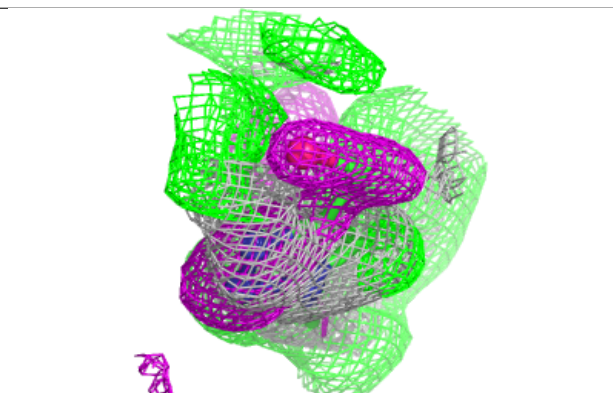
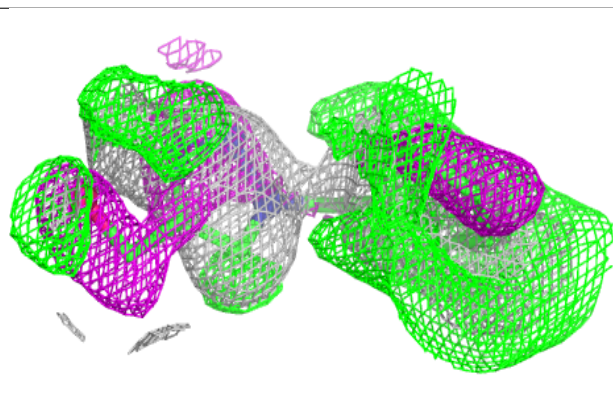
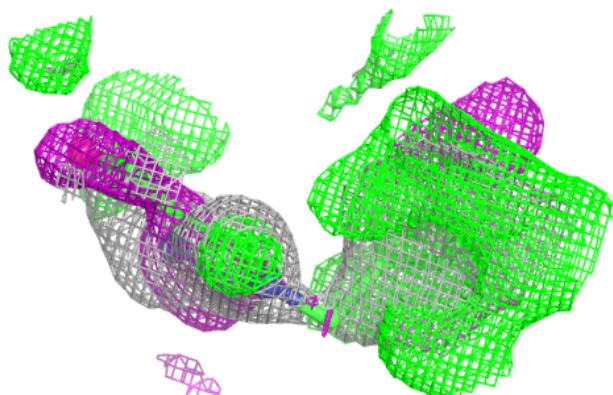


Electron density around A1I3J A 404:

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

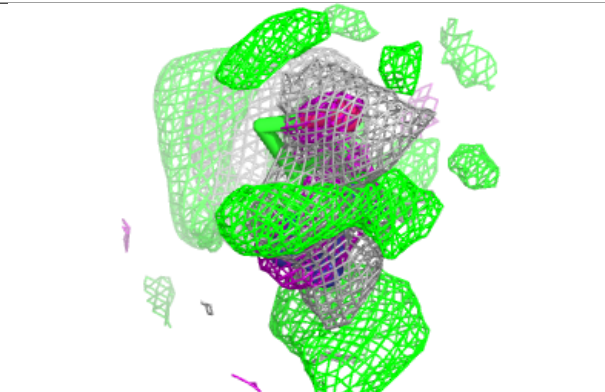
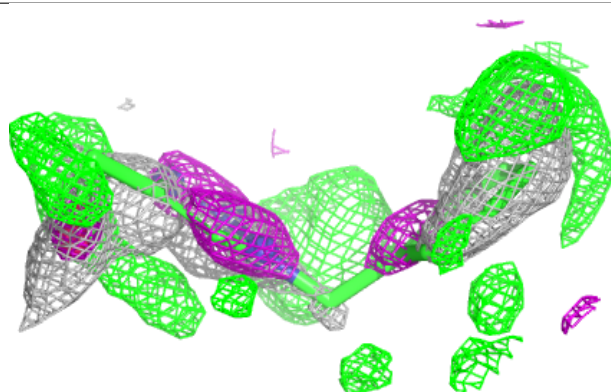
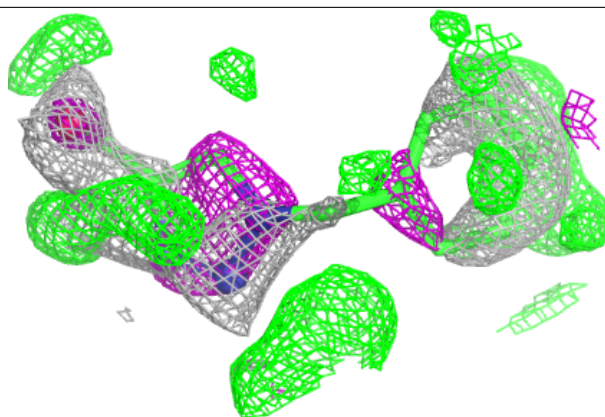
**Electron density around A1I3J B 402:**

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

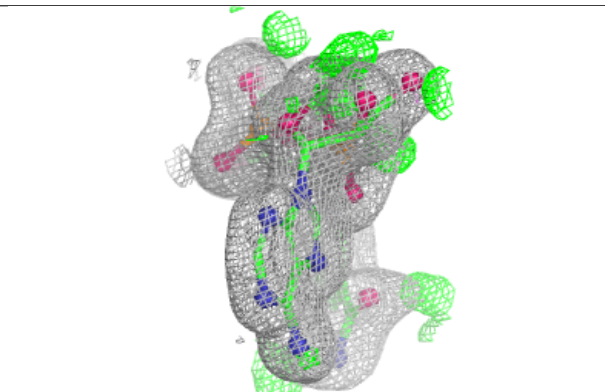
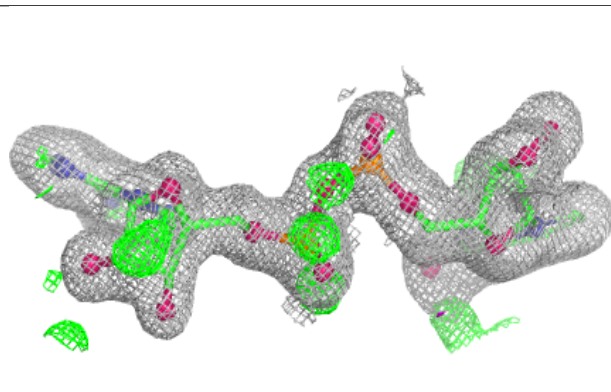
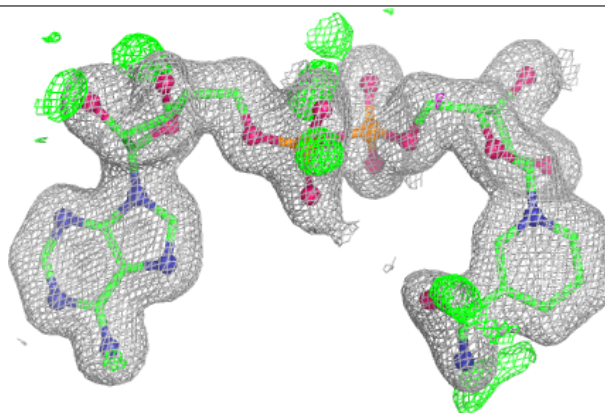


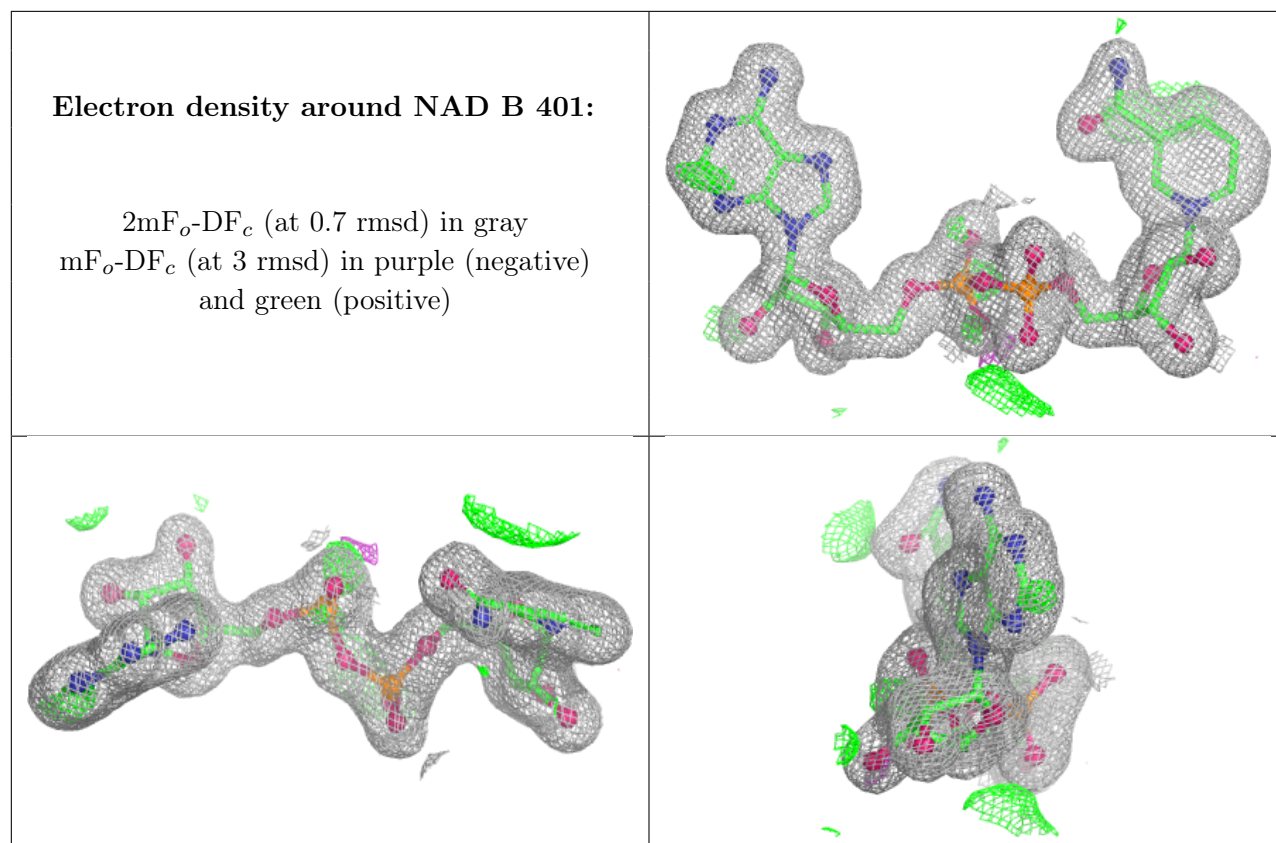
Electron density around A1I3J A 402:

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

**Electron density around NAD 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.