



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 10:31 AM UTC

PDB ID : 7VKZ / pdb_00007vkz
Title : The complex structure of beta-1,2-glucosyltransferase from Ignavibacterium album with 1-Deoxynojirimycin
Authors : Kobayashi, K.; Shimizu, H.; Tanaka, N.; Kuramochi, K.; Nakai, H.; Nakajima, M.; Taguchi, H.
Deposited on : 2021-10-01
Resolution : 2.00 Å(reported)

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

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

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

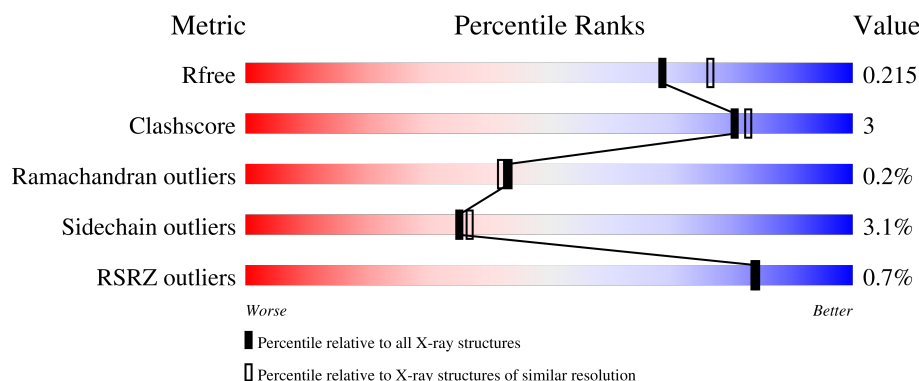
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	724	
1	B	724	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 12190 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.

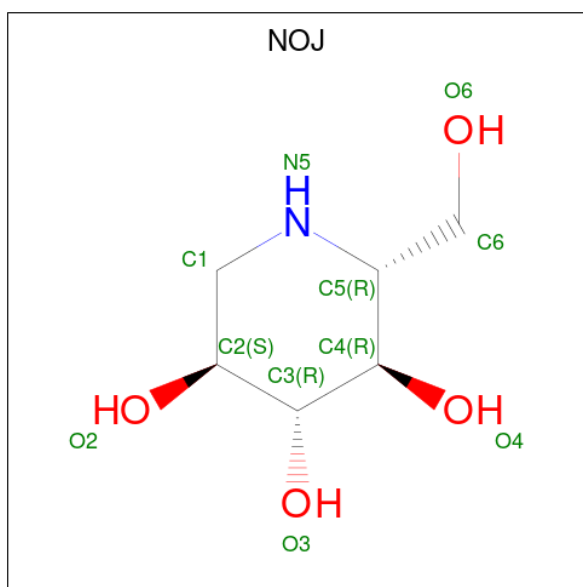
- Molecule 1 is a protein called beta-1,2-glucosyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	704	Total	C	N	O	S	0	0	0
			5816	3782	954	1064	16			
1	B	703	Total	C	N	O	S	0	0	0
			5810	3779	953	1062	16			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	343	GLY	GLU	engineered mutation	UNP I0AIT9
A	717	LEU	-	expression tag	UNP I0AIT9
A	718	GLU	-	expression tag	UNP I0AIT9
A	719	HIS	-	expression tag	UNP I0AIT9
A	720	HIS	-	expression tag	UNP I0AIT9
A	721	HIS	-	expression tag	UNP I0AIT9
A	722	HIS	-	expression tag	UNP I0AIT9
A	723	HIS	-	expression tag	UNP I0AIT9
A	724	HIS	-	expression tag	UNP I0AIT9
B	343	GLY	GLU	engineered mutation	UNP I0AIT9
B	717	LEU	-	expression tag	UNP I0AIT9
B	718	GLU	-	expression tag	UNP I0AIT9
B	719	HIS	-	expression tag	UNP I0AIT9
B	720	HIS	-	expression tag	UNP I0AIT9
B	721	HIS	-	expression tag	UNP I0AIT9
B	722	HIS	-	expression tag	UNP I0AIT9
B	723	HIS	-	expression tag	UNP I0AIT9
B	724	HIS	-	expression tag	UNP I0AIT9

- Molecule 2 is 1-DEOXYNOJIRIMYCIN (CCD ID: NOJ) (formula: $C_6H_{13}NO_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			11	6	1	4		
2	A	1	Total	C	N	O	0	0
			11	6	1	4		

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	2	Total	Ca	0	0
			2	2		

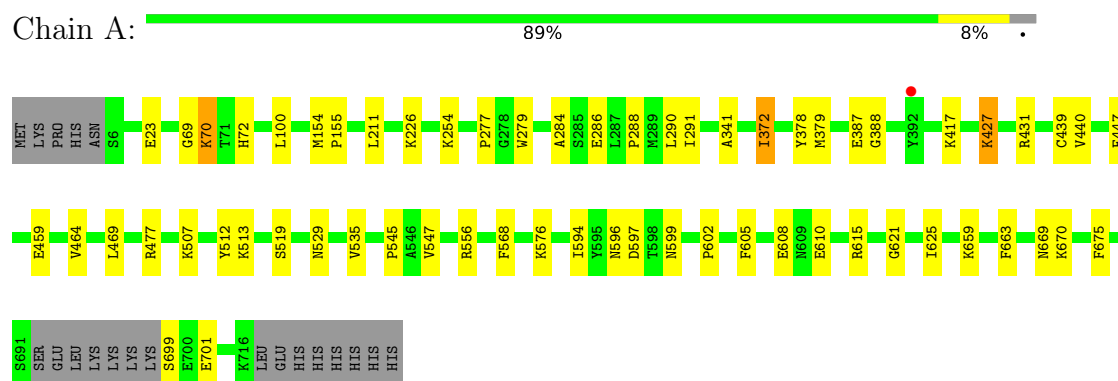
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	278	Total	O	0	0
			278	278		
4	B	262	Total	O	0	0
			262	262		

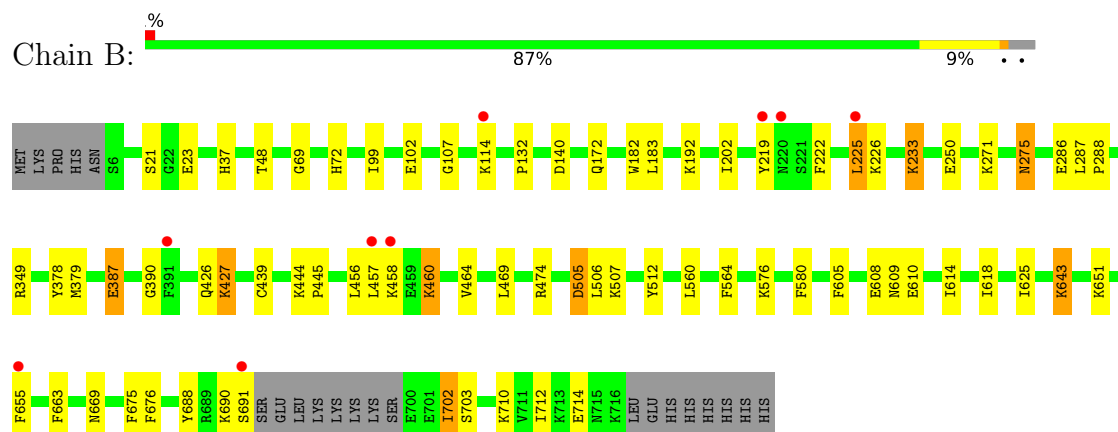
3 Residue-property plots [i](#)

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: beta-1,2-glucosyltransferase



- Molecule 1: beta-1,2-glucosyltransferase



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	162.66Å 71.65Å 129.52Å 90.00° 106.34° 90.00°	Depositor
Resolution (Å)	43.11 – 2.00 43.11 – 2.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (43.11-2.00) 100.0 (43.11-2.00)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.89 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.171 , 0.208 0.180 , 0.215	Depositor DCC
R_{free} test set	4944 reflections (5.11%)	wwPDB-VP
Wilson B-factor (Å ²)	21.8	Xtriage
Anisotropy	0.057	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 30.7	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	12190	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.81% 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: CA, NOJ

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	1.04	1/5966 (0.0%)	1.25	6/8056 (0.1%)
1	B	1.03	1/5960 (0.0%)	1.30	5/8048 (0.1%)
All	All	1.04	2/11926 (0.0%)	1.28	11/16104 (0.1%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	37	HIS	CE1-NE2	5.87	1.38	1.32
1	A	602	PRO	C-O	-5.24	1.17	1.23

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	505	ASP	CB-CA-C	6.04	119.70	109.80
1	B	275	ASN	CA-CB-CG	-5.29	107.31	112.60
1	B	233	LYS	N-CA-C	-5.23	107.45	113.88
1	A	440	VAL	CA-C-N	5.13	125.87	120.43
1	A	440	VAL	C-N-CA	5.13	125.87	120.43
1	A	615	ARG	CG-CD-NE	5.11	123.25	112.00
1	A	596	ASN	CA-C-N	5.05	131.19	121.54
1	A	596	ASN	C-N-CA	5.05	131.19	121.54
1	B	132	PRO	CA-C-N	5.05	130.81	121.52
1	B	132	PRO	C-N-CA	5.05	130.81	121.52
1	A	459	GLU	CB-CA-C	-5.04	101.02	109.48

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	5816	0	5753	30	0
1	B	5810	0	5748	34	0
2	A	22	0	26	0	0
3	B	2	0	0	0	0
4	A	278	0	0	0	0
4	B	262	0	0	0	0
All	All	12190	0	11527	61	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.

All (61) 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:547:VAL:HG23	1:A:625:ILE:HD11	1.61	0.82
1:A:547:VAL:CG2	1:A:625:ILE:CD1	2.62	0.78
1:A:576:LYS:HE2	1:B:390:GLY:O	1.89	0.73
1:A:547:VAL:HG23	1:A:625:ILE:CD1	2.21	0.71
1:B:172:GLN:OE1	1:B:275:ASN:ND2	2.24	0.71
1:B:183:LEU:HA	1:B:456:LEU:HD23	1.77	0.65
1:A:547:VAL:HG22	1:A:625:ILE:CD1	2.29	0.62
1:A:519:SER:O	1:A:545:PRO:HD2	2.05	0.57
1:B:23:GLU:HG2	1:B:379:MET:SD	2.45	0.56
1:B:614:ILE:HD11	1:B:625:ILE:HD11	1.88	0.54
1:A:427:LYS:HE3	1:A:431:ARG:HH12	1.74	0.52
1:A:576:LYS:CE	1:B:390:GLY:O	2.59	0.51
1:A:70:LYS:HE3	1:A:70:LYS:HA	1.92	0.50
1:B:182:TRP:CE2	1:B:456:LEU:HD22	2.46	0.50
1:B:219:TYR:CE2	1:B:225:LEU:HD23	2.47	0.50
1:B:580:PHE:HB3	1:B:643:LYS:HE2	1.94	0.49
1:A:663:PHE:HA	1:A:675:PHE:O	2.11	0.49
1:A:69:GLY:HA2	1:A:72:HIS:O	2.13	0.49
1:B:676:PHE:HE2	1:B:712:ILE:HD12	1.78	0.48
1:A:568:PHE:HA	1:A:594:ILE:O	2.12	0.48
1:A:547:VAL:CG2	1:A:625:ILE:HD13	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:690:LYS:NZ	1:B:714:GLU:OE2	2.41	0.47
1:B:663:PHE:HA	1:B:675:PHE:O	2.14	0.47
1:B:439:CYS:HB2	1:B:512:TYR:CG	2.50	0.47
1:A:547:VAL:CG2	1:A:625:ILE:HD11	2.31	0.47
1:A:447:PHE:CD2	1:A:477:ARG:HD2	2.50	0.46
1:A:288:PRO:HA	1:A:291:ILE:HG22	1.97	0.46
1:B:21:SER:HA	1:B:48:THR:O	2.16	0.46
1:A:535:VAL:O	1:A:621:GLY:HA3	2.16	0.45
1:A:388:GLY:O	1:B:576:LYS:NZ	2.41	0.45
1:A:211:LEU:C	1:A:211:LEU:HD23	2.42	0.45
1:B:378:TYR:HA	1:B:379:MET:HA	1.80	0.44
1:A:341:ALA:HB2	1:A:372:ILE:HD11	1.98	0.44
1:B:202:ILE:HG12	1:B:222:PHE:CD2	2.51	0.44
1:B:464:VAL:HB	1:B:469:LEU:HB2	1.99	0.44
1:A:605:PHE:HA	1:A:610:GLU:O	2.17	0.44
1:B:140:ASP:OD1	1:B:192:LYS:NZ	2.51	0.43
1:A:23:GLU:HG2	1:A:379:MET:SD	2.58	0.43
1:B:444:LYS:N	1:B:445:PRO:CD	2.81	0.43
1:A:154:MET:N	1:A:155:PRO:CD	2.81	0.43
1:A:464:VAL:HB	1:A:469:LEU:HB2	2.00	0.43
1:B:426:GLN:HE21	1:B:427:LYS:NZ	2.16	0.43
1:B:702:ILE:HD12	1:B:710:LYS:HG2	2.01	0.43
1:A:599:ASN:CG	1:A:599:ASN:O	2.60	0.42
1:A:378:TYR:HA	1:A:379:MET:HA	1.81	0.42
1:B:287:LEU:N	1:B:288:PRO:CD	2.82	0.42
1:A:439:CYS:HB2	1:A:512:TYR:CG	2.55	0.42
1:B:69:GLY:HA2	1:B:72:HIS:O	2.20	0.42
1:B:605:PHE:HA	1:B:610:GLU:O	2.20	0.42
1:B:655:PHE:O	1:B:688:TYR:HA	2.19	0.42
1:B:669:ASN:OD1	1:B:669:ASN:N	2.53	0.42
1:B:676:PHE:CE2	1:B:712:ILE:HD12	2.54	0.42
1:A:279:TRP:CD2	1:A:284:ALA:HB2	2.55	0.42
1:B:460:LYS:HE3	1:B:474:ARG:NH2	2.35	0.41
1:B:439:CYS:HB2	1:B:512:TYR:CD2	2.55	0.41
1:B:560:LEU:C	1:B:560:LEU:HD23	2.46	0.41
1:A:277:PRO:HG2	1:A:290:LEU:HD13	2.03	0.41
1:B:102:GLU:HG2	1:B:349:ARG:HH21	1.85	0.41
1:B:99:ILE:HG12	1:B:107:GLY:HA3	2.03	0.41
1:B:564:PHE:CD1	1:B:618:ILE:HD13	2.55	0.40
1:A:427:LYS:HE3	1:A:431:ARG:NH1	2.36	0.40

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	700/724 (97%)	681 (97%)	17 (2%)	2 (0%)	36	35
1	B	699/724 (96%)	677 (97%)	21 (3%)	1 (0%)	48	46
All	All	1399/1448 (97%)	1358 (97%)	38 (3%)	3 (0%)	43	42

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	387	GLU
1	A	100	LEU
1	A	597	ASP

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	636/656 (97%)	618 (97%)	18 (3%)	38	41
1	B	635/656 (97%)	613 (96%)	22 (4%)	32	32
All	All	1271/1312 (97%)	1231 (97%)	40 (3%)	35	37

All (40) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	70	LYS
1	A	226	LYS
1	A	254	LYS

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Mol	Chain	Res	Type
1	A	286	GLU
1	A	372	ILE
1	A	387	GLU
1	A	417	LYS
1	A	427	LYS
1	A	507	LYS
1	A	513	LYS
1	A	529	ASN
1	A	556	ARG
1	A	608	GLU
1	A	659	LYS
1	A	669	ASN
1	A	670	LYS
1	A	699	SER
1	A	701	GLU
1	B	114	LYS
1	B	225	LEU
1	B	226	LYS
1	B	233	LYS
1	B	250	GLU
1	B	271	LYS
1	B	286	GLU
1	B	387	GLU
1	B	427	LYS
1	B	457	LEU
1	B	458	LYS
1	B	460	LYS
1	B	505	ASP
1	B	506	LEU
1	B	507	LYS
1	B	608	GLU
1	B	609	ASN
1	B	643	LYS
1	B	651	LYS
1	B	691	SER
1	B	702	ILE
1	B	703	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	105	ASN

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Mol	Chain	Res	Type
1	A	164	HIS
1	A	540	ASN
1	B	376	ASN
1	B	540	ASN
1	B	715	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	$\# Z > 2$
2	NOJ	A	802	-	11,11,11	0.33	0	13,15,15	0.78	0
2	NOJ	A	801	-	11,11,11	0.49	0	13,15,15	1.00	1 (7%)

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	NOJ	A	802	-	-	0/2/19/19	0/1/1/1
2	NOJ	A	801	-	-	0/2/19/19	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(°)	Ideal(°)
2	A	801	NOJ	C1-N5-C5	2.53	115.27	109.71

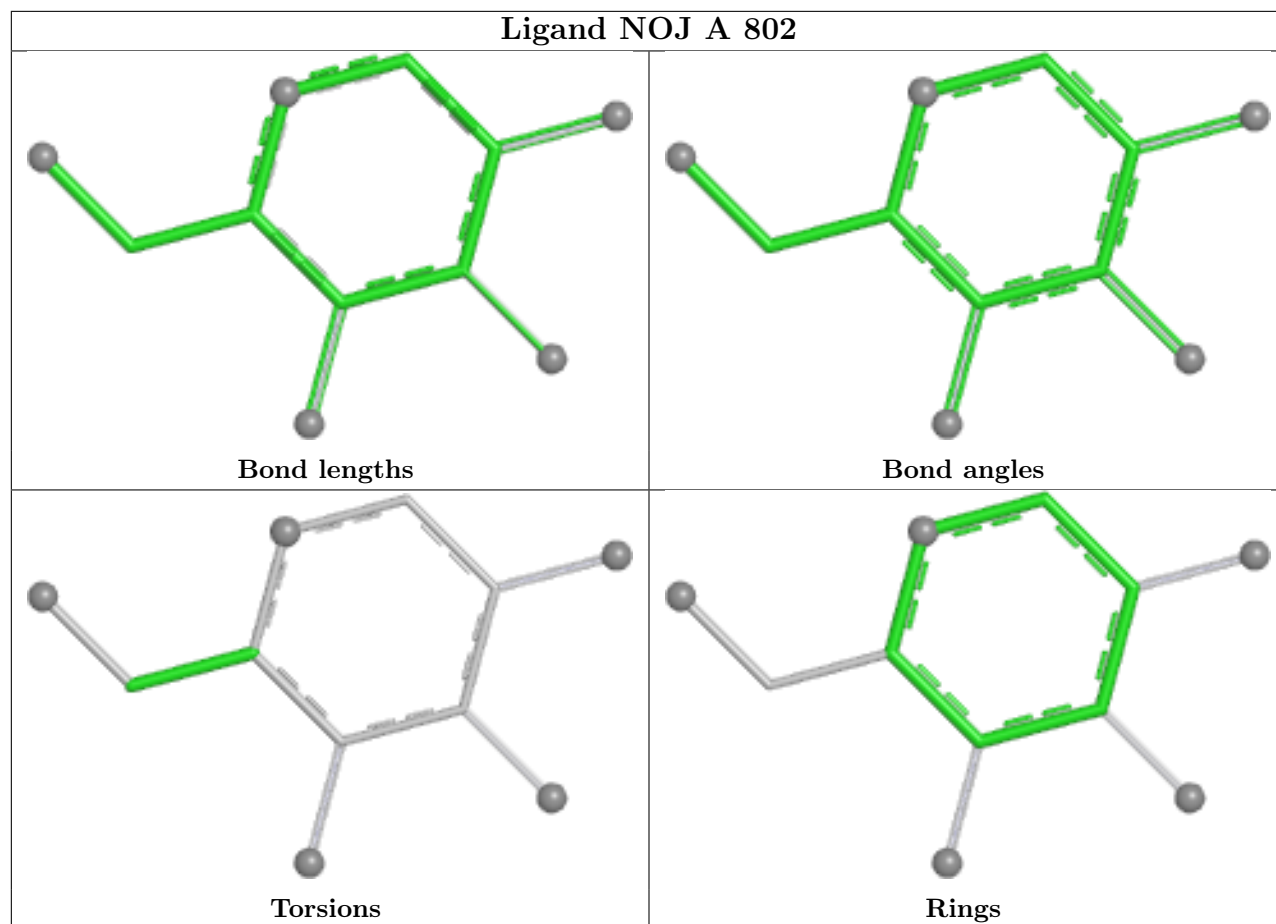
There are no chirality outliers.

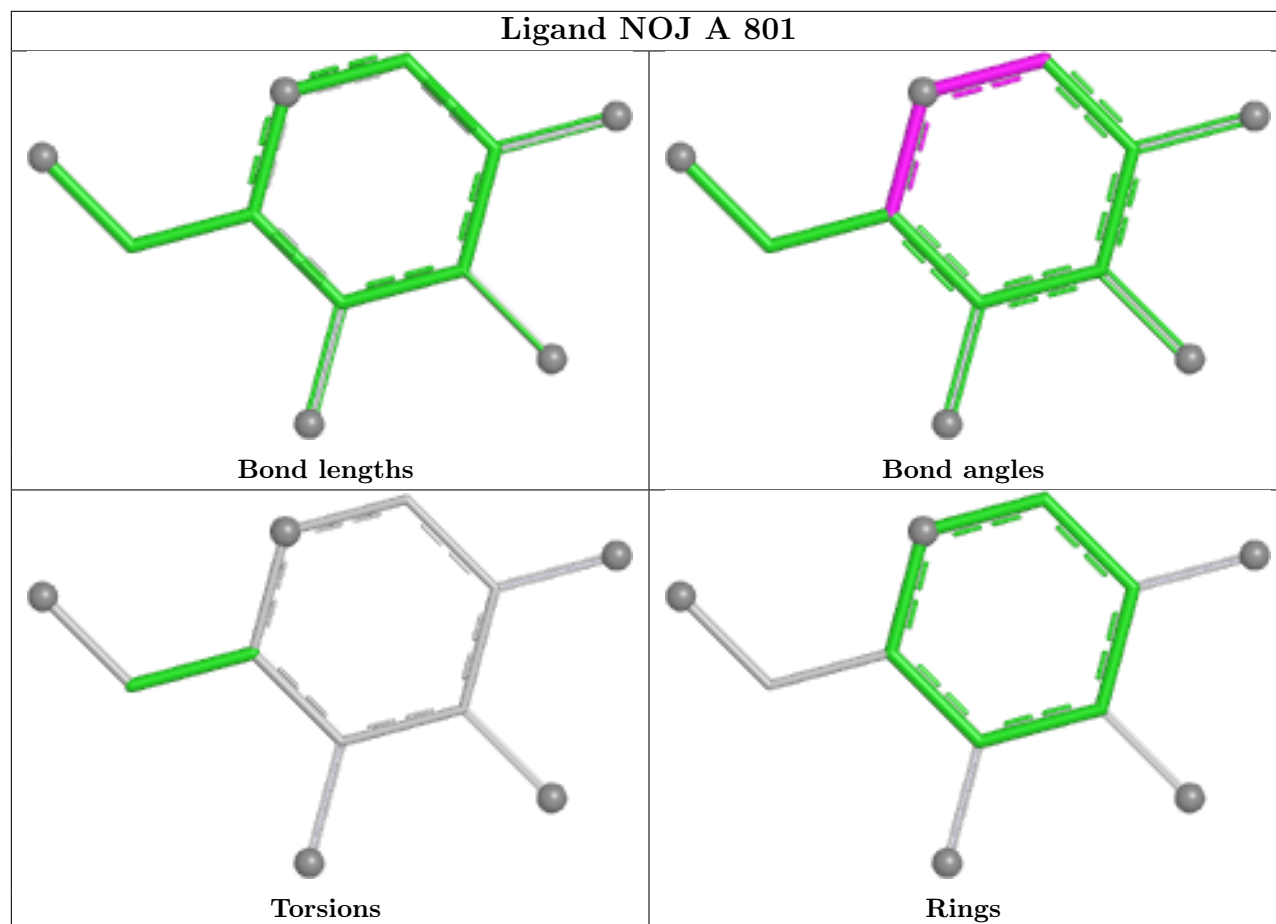
There are no torsion outliers.

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 than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [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	704/724 (97%)	-0.40	1 (0%) 92 91	13, 21, 37, 60	0
1	B	703/724 (97%)	-0.21	9 (1%) 75 74	14, 23, 43, 64	0
All	All	1407/1448 (97%)	-0.31	10 (0%) 84 84	13, 22, 40, 64	0

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	691	SER	4.1
1	B	655	PHE	4.0
1	B	219	TYR	3.0
1	B	457	LEU	2.5
1	B	458	LYS	2.4
1	B	225	LEU	2.3
1	A	392	TYR	2.3
1	B	391	PHE	2.2
1	B	114	LYS	2.1
1	B	220	ASN	2.1

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

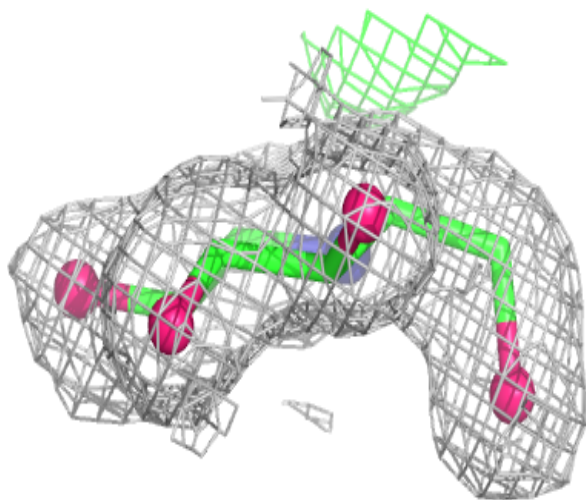
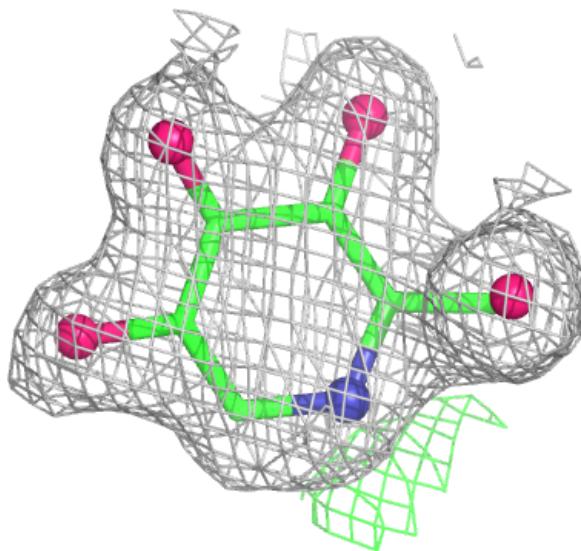
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	NOJ	A	801	11/11	0.95	0.07	17,20,21,22	0
3	CA	B	802	1/1	0.97	0.06	47,47,47,47	0
2	NOJ	A	802	11/11	0.98	0.04	15,16,16,17	0
3	CA	B	801	1/1	0.99	0.02	20,20,20,20	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.

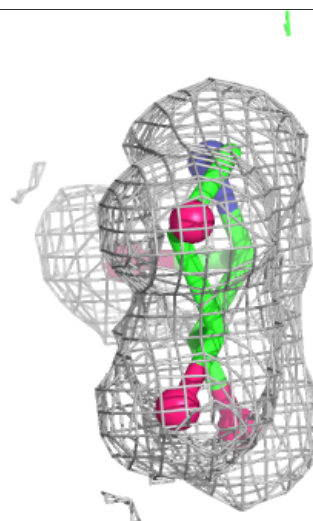
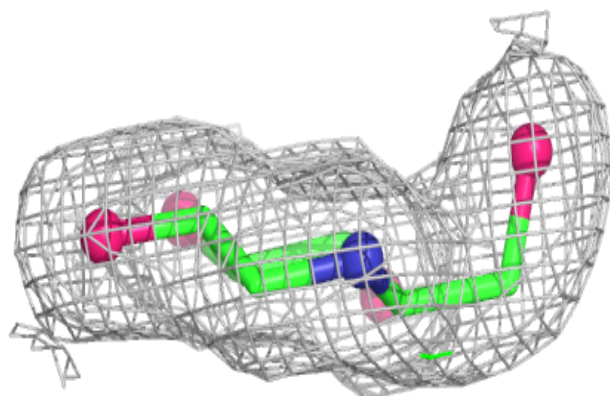
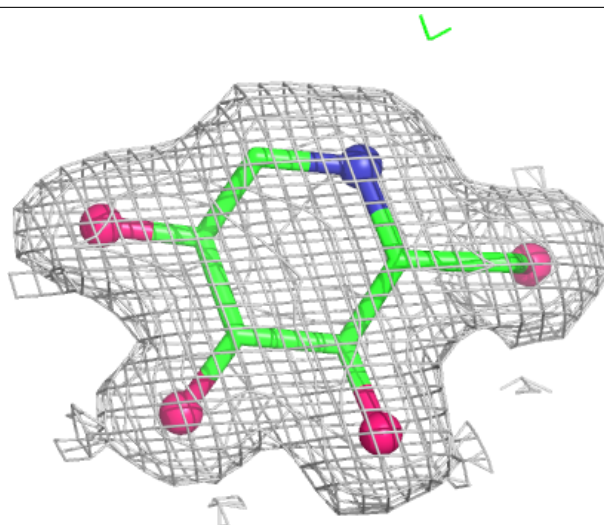
Electron density around NOJ A 801:

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



Electron density around NOJ A 802:

$2mF_o-DF_c$ (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.