



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 08:15 AM UTC

PDB ID : 8OI3 / pdb_00008oi3
Title : Structure of NopD with AtSUMO2
Authors : Reverter, D.; Li, Y.
Deposited on : 2023-03-22
Resolution : 1.50 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

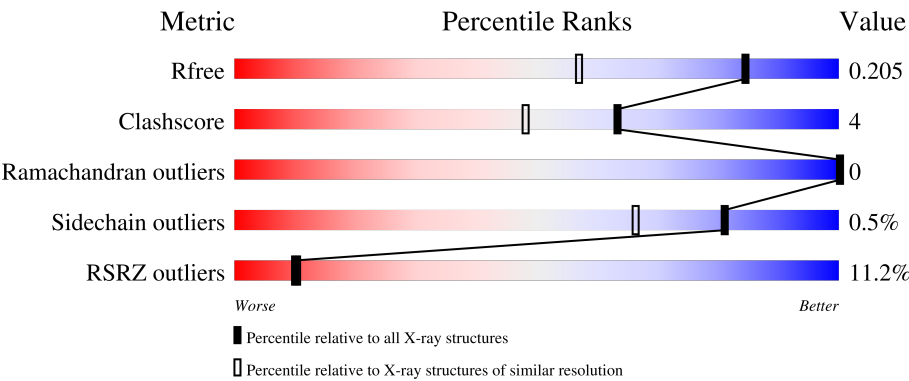
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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	4037 (1.50-1.50)
Clashscore	190562	4235 (1.50-1.50)
Ramachandran outliers	187476	4153 (1.50-1.50)
Sidechain outliers	187428	4150 (1.50-1.50)
RSRZ outliers	180081	4039 (1.50-1.50)

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	208	8% 82% 6% 12%
1	B	208	11% 83% • 12%
2	C	91	5% 70% 14% 15%
2	D	91	15% 66% 19% 15%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 8667 atoms, of which 4144 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 Type III effector.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	183	Total	C	H	N	O	S	0	3	0
			2961	921	1471	292	275	2			
1	B	183	Total	C	H	N	O	S	0	0	0
			2909	906	1440	286	275	2			

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	809	MET	-	initiating methionine	UNP A0A2U9K2V6
A	810	GLY	-	expression tag	UNP A0A2U9K2V6
A	811	SER	-	expression tag	UNP A0A2U9K2V6
A	812	SER	-	expression tag	UNP A0A2U9K2V6
A	813	HIS	-	expression tag	UNP A0A2U9K2V6
A	814	HIS	-	expression tag	UNP A0A2U9K2V6
A	815	HIS	-	expression tag	UNP A0A2U9K2V6
A	816	HIS	-	expression tag	UNP A0A2U9K2V6
A	817	HIS	-	expression tag	UNP A0A2U9K2V6
A	818	HIS	-	expression tag	UNP A0A2U9K2V6
A	819	SER	-	expression tag	UNP A0A2U9K2V6
A	820	SER	-	expression tag	UNP A0A2U9K2V6
A	821	GLY	-	expression tag	UNP A0A2U9K2V6
A	822	LEU	-	expression tag	UNP A0A2U9K2V6
A	823	VAL	-	expression tag	UNP A0A2U9K2V6
A	824	PRO	-	expression tag	UNP A0A2U9K2V6
A	825	ARG	-	expression tag	UNP A0A2U9K2V6
A	826	GLY	-	expression tag	UNP A0A2U9K2V6
A	827	SER	-	expression tag	UNP A0A2U9K2V6
A	828	HIS	-	expression tag	UNP A0A2U9K2V6
B	809	MET	-	initiating methionine	UNP A0A2U9K2V6
B	810	GLY	-	expression tag	UNP A0A2U9K2V6
B	811	SER	-	expression tag	UNP A0A2U9K2V6
B	812	SER	-	expression tag	UNP A0A2U9K2V6
B	813	HIS	-	expression tag	UNP A0A2U9K2V6

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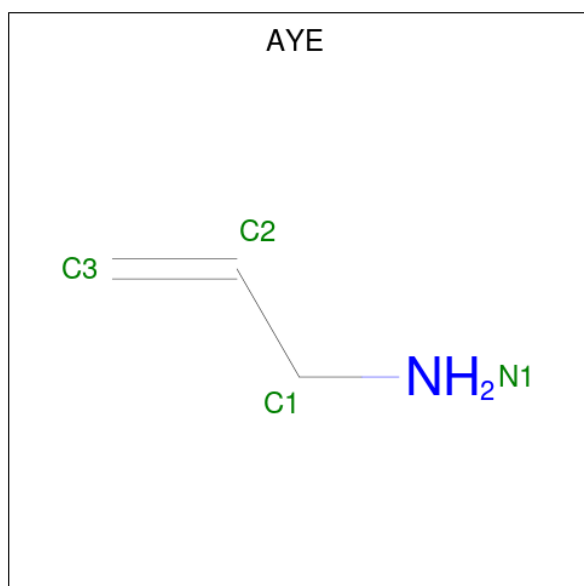
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Chain	Residue	Modelled	Actual	Comment	Reference
B	814	HIS	-	expression tag	UNP A0A2U9K2V6
B	815	HIS	-	expression tag	UNP A0A2U9K2V6
B	816	HIS	-	expression tag	UNP A0A2U9K2V6
B	817	HIS	-	expression tag	UNP A0A2U9K2V6
B	818	HIS	-	expression tag	UNP A0A2U9K2V6
B	819	SER	-	expression tag	UNP A0A2U9K2V6
B	820	SER	-	expression tag	UNP A0A2U9K2V6
B	821	GLY	-	expression tag	UNP A0A2U9K2V6
B	822	LEU	-	expression tag	UNP A0A2U9K2V6
B	823	VAL	-	expression tag	UNP A0A2U9K2V6
B	824	PRO	-	expression tag	UNP A0A2U9K2V6
B	825	ARG	-	expression tag	UNP A0A2U9K2V6
B	826	GLY	-	expression tag	UNP A0A2U9K2V6
B	827	SER	-	expression tag	UNP A0A2U9K2V6
B	828	HIS	-	expression tag	UNP A0A2U9K2V6

- Molecule 2 is a protein called Small ubiquitin-related modifier 2.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	C	77	Total	C	H	N	O	S	0	0	0
			1228	385	605	113	121	4			
2	D	77	Total	C	H	N	O	S	0	1	0
			1242	390	614	113	121	4			

- Molecule 3 is prop-2-en-1-amine (CCD ID: AYE) (formula: C₃H₇N) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	N	0	0
			11	3	7	1		
3	B	1	Total	C	H	N	0	0
			11	3	7	1		

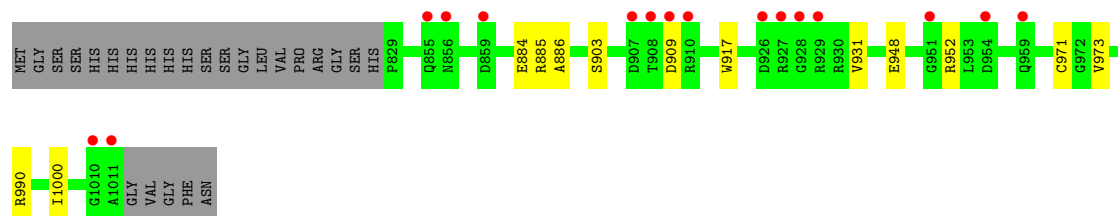
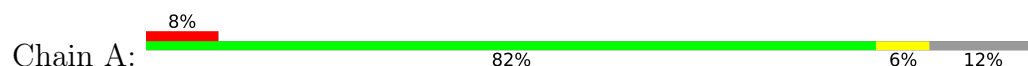
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	106	Total	O	0	0
			106	106		
4	B	93	Total	O	0	0
			93	93		
4	C	51	Total	O	0	0
			51	51		
4	D	55	Total	O	0	0
			55	55		

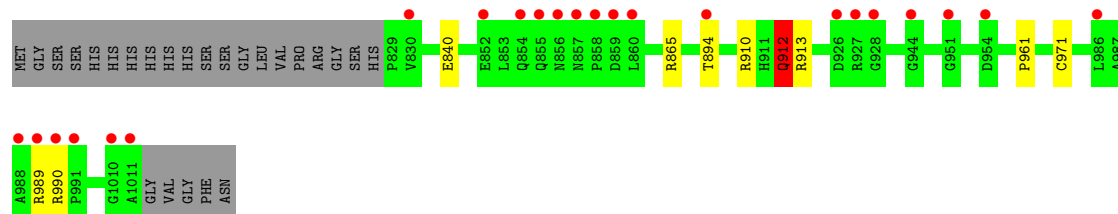
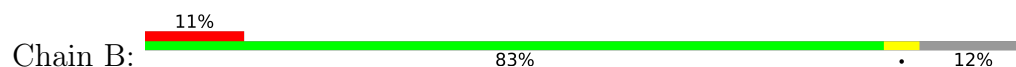
3 Residue-property plots [i](#)

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: Type III effector



• Molecule 1: Type III effector



• Molecule 2: Small ubiquitin-related modifier 2



• Molecule 2: Small ubiquitin-related modifier 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	80.85Å 86.83Å 90.48Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.52 – 1.50 49.52 – 1.50	Depositor EDS
% Data completeness (in resolution range)	74.9 (49.52-1.50) 75.1 (49.52-1.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.52 (at 1.50Å)	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.178 , 0.204 0.181 , 0.205	Depositor DCC
R_{free} test set	3911 reflections (3.81%)	wwPDB-VP
Wilson B-factor (Å ²)	19.8	Xtriage
Anisotropy	0.021	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.45 , 47.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.012 for -h,l,k	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8667	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.44% 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: AYE

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	0.58	4/1526 (0.3%)	0.62	1/2068 (0.0%)
1	B	0.51	2/1496 (0.1%)	0.62	2/2028 (0.1%)
2	C	0.56	2/631 (0.3%)	0.58	0/843
2	D	0.51	1/639 (0.2%)	0.51	0/854
All	All	0.54	9/4292 (0.2%)	0.60	3/5793 (0.1%)

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	931	VAL	C-O	-7.39	1.16	1.24
1	B	961	PRO	C-O	-7.03	1.16	1.23
2	C	38	GLN	C-O	-7.02	1.15	1.23
2	D	83	ILE	C-O	-6.92	1.16	1.24
2	C	82	GLU	C-O	-6.77	1.15	1.24
1	B	913	ARG	C-O	-6.27	1.15	1.24
1	A	885	ARG	C-O	-6.01	1.17	1.24
1	A	886	ALA	C-O	-5.97	1.17	1.24
1	A	884	GLU	C-O	-5.46	1.17	1.24

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	912	GLN	CB-CG-CD	11.65	132.40	112.60
1	B	912	GLN	CG-CD-NE2	-5.82	107.67	116.40
1	A	909	ASP	CA-CB-CG	5.35	117.95	112.60

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	1490	1471	1477	5	0
1	B	1469	1440	1440	7	0
2	C	623	605	605	8	1
2	D	628	614	616	14	1
3	A	4	7	5	1	0
3	B	4	7	4	1	0
4	A	106	0	0	0	1
4	B	93	0	0	1	0
4	C	51	0	0	2	1
4	D	55	0	0	3	1
All	All	4523	4144	4147	33	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 4.

All (33) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:78:GLU:OE2	4:D:201:HOH:O	1.60	1.18
1:B:865:ARG:NH2	1:B:894:THR:HG23	1.96	0.81
2:D:40:LYS:HD3	2:D:68:ALA:HB1	1.74	0.67
1:B:865:ARG:HH21	1:B:894:THR:HG23	1.59	0.66
2:C:40:LYS:HD3	2:C:68:ALA:HB1	1.79	0.63
2:D:37:THR:HG21	2:D:41:LYS:HE2	1.80	0.62
2:D:57[B]:ILE:CD1	2:D:85:ALA:HB1	2.35	0.57
1:A:973:VAL:HG12	1:A:1000[A]:ILE:HG23	1.86	0.55
2:D:47:CYS:SG	2:D:57[B]:ILE:HG21	2.48	0.54
2:C:40:LYS:HB2	2:C:68:ALA:HB1	1.89	0.54
1:B:971:CYS:H	3:B:1101:AYE:C3	2.23	0.52
1:B:910:ARG:NH2	2:C:50:GLN:O	2.41	0.52
2:D:27:ASN:OD1	4:D:202:HOH:O	2.18	0.51
2:D:33:ILE:HD11	2:D:72:PRO:HG2	1.93	0.51
2:D:57[B]:ILE:HD11	2:D:85:ALA:HB1	1.92	0.50
1:B:912:GLN:O	1:B:912:GLN:HG3	2.12	0.48
2:C:24:GLN:HB3	2:C:86:MET:SD	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:989:ARG:O	1:B:990:ARG:HD3	2.14	0.47
2:C:22:LYS:HD3	4:C:206:HOH:O	2.12	0.47
2:D:40:LYS:CD	2:D:68:ALA:HB1	2.42	0.46
2:D:40:LYS:HD3	2:D:68:ALA:CB	2.45	0.46
2:D:35:ARG:NH1	2:D:77:MET:O	2.48	0.45
1:A:971:CYS:H	3:A:1101:AYE:C3	2.29	0.45
1:B:840:GLU:HG3	4:B:1248:HOH:O	2.17	0.44
1:A:973:VAL:CG1	1:A:1000[A]:ILE:HG23	2.48	0.44
2:D:86:MET:SD	4:D:244:HOH:O	2.62	0.44
1:A:948:GLU:O	1:A:952:ARG:HG3	2.19	0.43
2:C:20:LYS:HD2	2:C:28:GLU:CD	2.45	0.41
2:C:22:LYS:HE3	2:C:26:GLY:HA2	2.03	0.41
2:D:33:ILE:CD1	2:D:72:PRO:HG2	2.50	0.41
2:C:41:LYS:HB2	4:C:209:HOH:O	2.21	0.41
2:D:18:ASN:HD22	2:D:79:ASP:CG	2.29	0.40
1:A:903:SER:HB2	1:A:917:TRP:CZ3	2.56	0.40

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)
4:A:1248:HOH:O	4:A:1300:HOH:O[3_555]	1.87	0.33
2:C:81:ASP:OD1	2:D:41:LYS:HZ2[2_554]	1.43	0.17
4:C:237:HOH:O	4:D:231:HOH:O[2_554]	2.15	0.05

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	184/208 (88%)	183 (100%)	1 (0%)	0	100	100
1	B	181/208 (87%)	180 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	C	75/91 (82%)	75 (100%)	0	0	100	100
2	D	76/91 (84%)	76 (100%)	0	0	100	100
All	All	516/598 (86%)	514 (100%)	2 (0%)	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	157/174 (90%)	155 (99%)	2 (1%)	61	35
1	B	154/174 (88%)	153 (99%)	1 (1%)	78	62
2	C	67/79 (85%)	67 (100%)	0	100	100
2	D	68/79 (86%)	68 (100%)	0	100	100
All	All	446/506 (88%)	443 (99%)	3 (1%)	81	57

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	990[A]	ARG
1	A	990[B]	ARG
1	B	912	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	851	GLN
1	A	958	GLN
1	A	959	GLN
1	B	854	GLN
1	B	855	GLN
1	B	939	GLN

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Mol	Chain	Res	Type
1	B	958	GLN

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](#)

2 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	AYE	B	1101	2,1	3,3,3	1.86	1 (33%)	2,2,2	2.97	1 (50%)
3	AYE	A	1101	2,1	3,3,3	1.52	1 (33%)	2,2,2	2.85	1 (50%)

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	AYE	B	1101	2,1	-	0/1/1/1	-
3	AYE	A	1101	2,1	-	0/1/1/1	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	1101	AYE	C1-C2	3.00	1.60	1.49
3	A	1101	AYE	C1-C2	2.20	1.57	1.49

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	1101	AYE	C1-C2-C3	-4.06	115.26	126.38
3	A	1101	AYE	C1-C2-C3	-3.54	116.67	126.38

There are no chirality outliers.

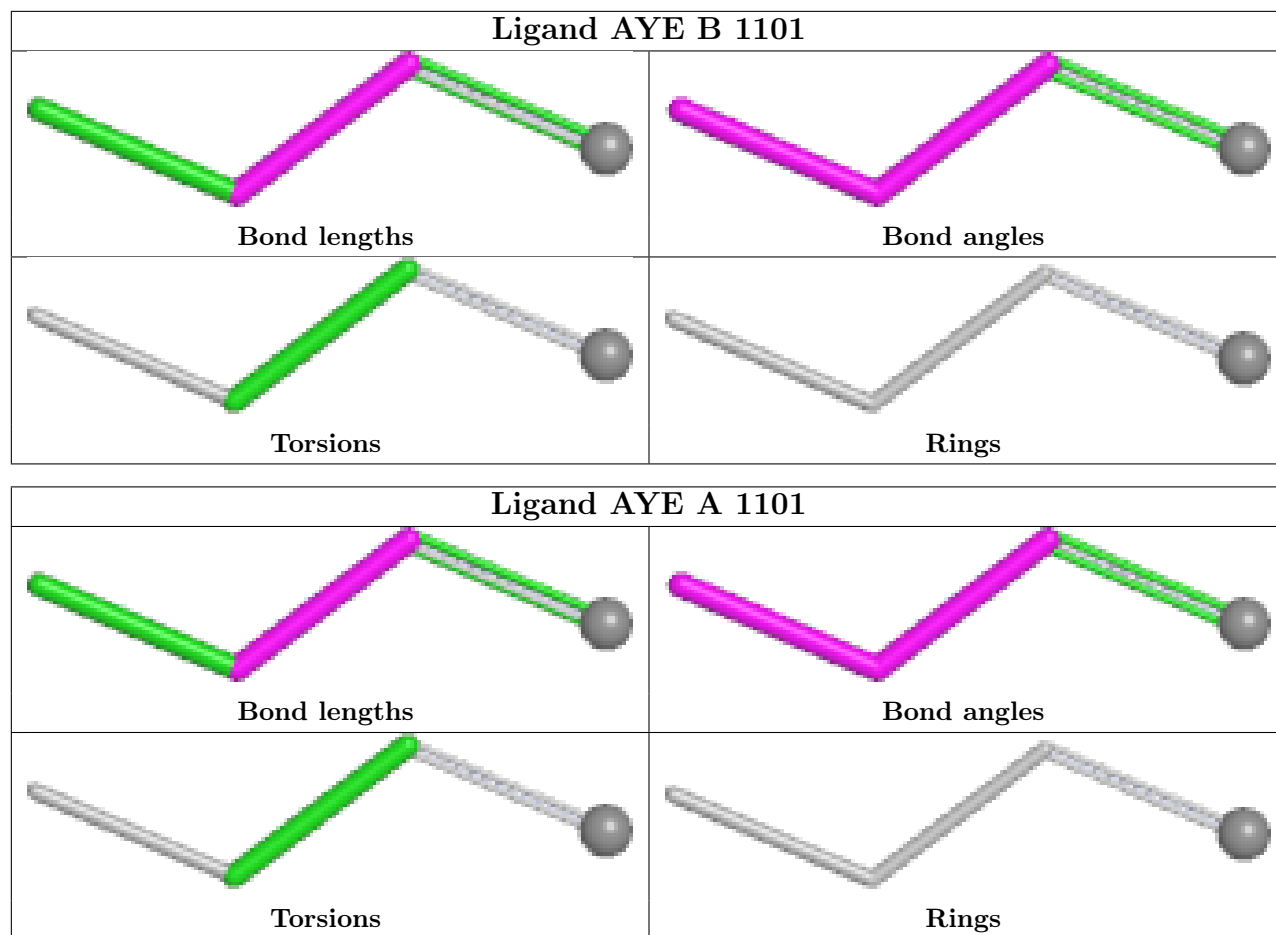
There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	1101	AYE	1	0
3	A	1101	AYE	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.



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

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(Å ²)	Q<0.9
1	A	183/208 (87%)	0.32	16 (8%) 16 17	15, 27, 53, 91	3 (1%)
1	B	183/208 (87%)	0.57	23 (12%) 8 8	14, 30, 64, 87	0
2	C	77/91 (84%)	0.37	5 (6%) 25 27	15, 28, 52, 69	0
2	D	77/91 (84%)	0.84	14 (18%) 3 3	14, 34, 65, 83	1 (1%)
All	All	520/598 (86%)	0.49	58 (11%) 10 10	14, 30, 63, 91	4 (0%)

All (58) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1011	ALA	6.8
2	C	15	ALA	5.9
1	A	1011	ALA	5.8
2	D	15	ALA	5.2
1	A	910	ARG	5.1
1	A	928	GLY	4.2
2	D	16	HIS	4.1
2	C	38	GLN	4.0
2	D	33	ILE	3.9
1	A	908	THR	3.7
1	B	855	GLN	3.7
1	B	894	THR	3.6
1	B	928	GLY	3.2
2	D	73	ASP	3.2
1	B	927	ARG	3.0
1	B	1010	GLY	2.8
1	B	856	ASN	2.7
2	D	32	ARG	2.7
2	C	49	ARG	2.7
1	A	927	ARG	2.7
1	A	929	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	1010	GLY	2.7
2	D	36	SER	2.6
2	D	30	PHE	2.6
1	A	926	ASP	2.6
1	A	907	ASP	2.5
2	D	80	GLY	2.5
1	B	854	GLN	2.5
1	B	859	ASP	2.5
1	B	991	PRO	2.4
1	B	988	ALA	2.4
2	D	40	LYS	2.4
1	B	990	ARG	2.3
1	B	860	LEU	2.3
1	A	954	ASP	2.3
2	D	49	ARG	2.3
1	A	856	ASN	2.3
1	A	951	GLY	2.3
1	B	986	LEU	2.3
1	B	989	ARG	2.3
1	B	857	ASN	2.3
2	C	78	GLU	2.3
1	B	944	GLY	2.1
1	B	951	GLY	2.1
1	A	859	ASP	2.1
1	A	909	ASP	2.1
2	D	29	VAL	2.1
2	C	34	LYS	2.1
2	D	34	LYS	2.1
1	A	855	GLN	2.1
1	B	852	GLU	2.1
1	B	926	ASP	2.1
1	A	959	GLN	2.1
2	D	78	GLU	2.1
1	B	954	ASP	2.1
2	D	75	LEU	2.0
1	B	858	PRO	2.0
1	B	830	VAL	2.0

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 [i](#)

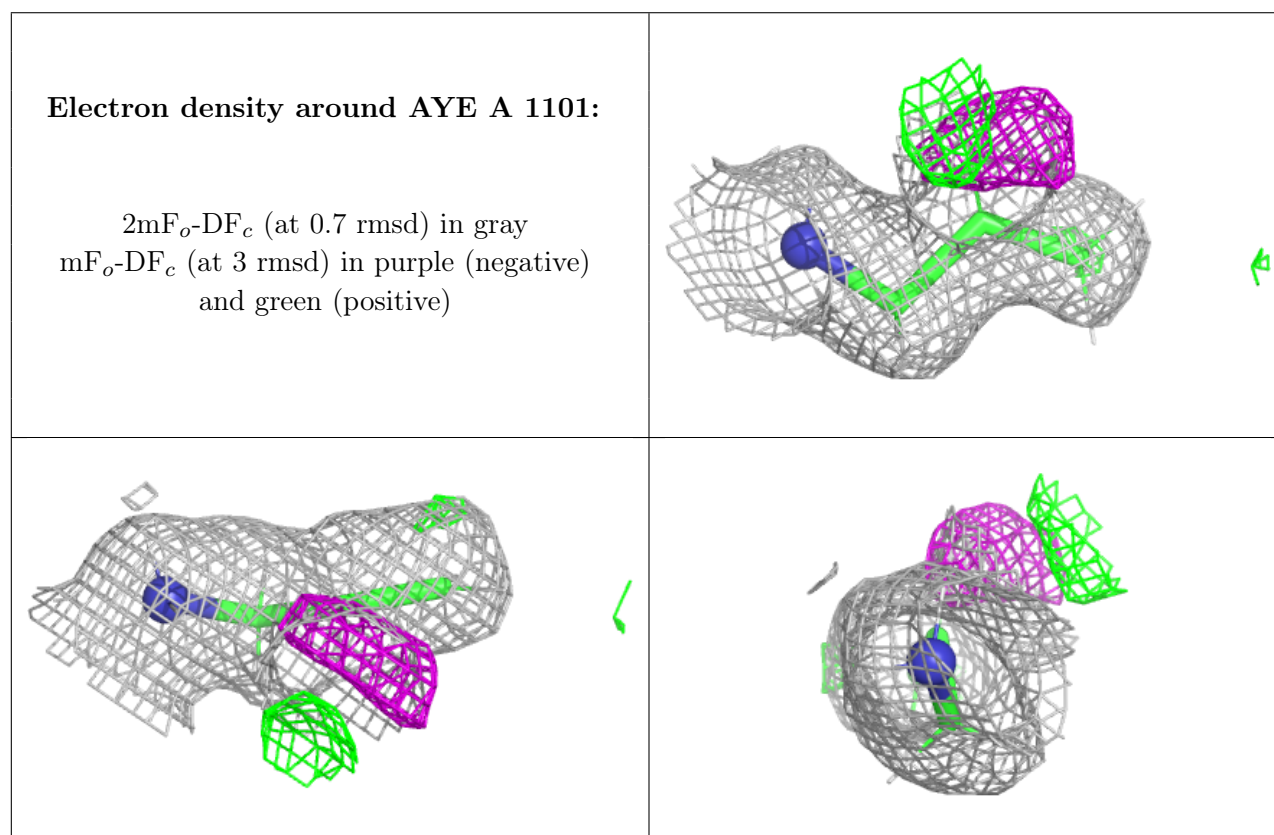
There are no oligosaccharides in this entry.

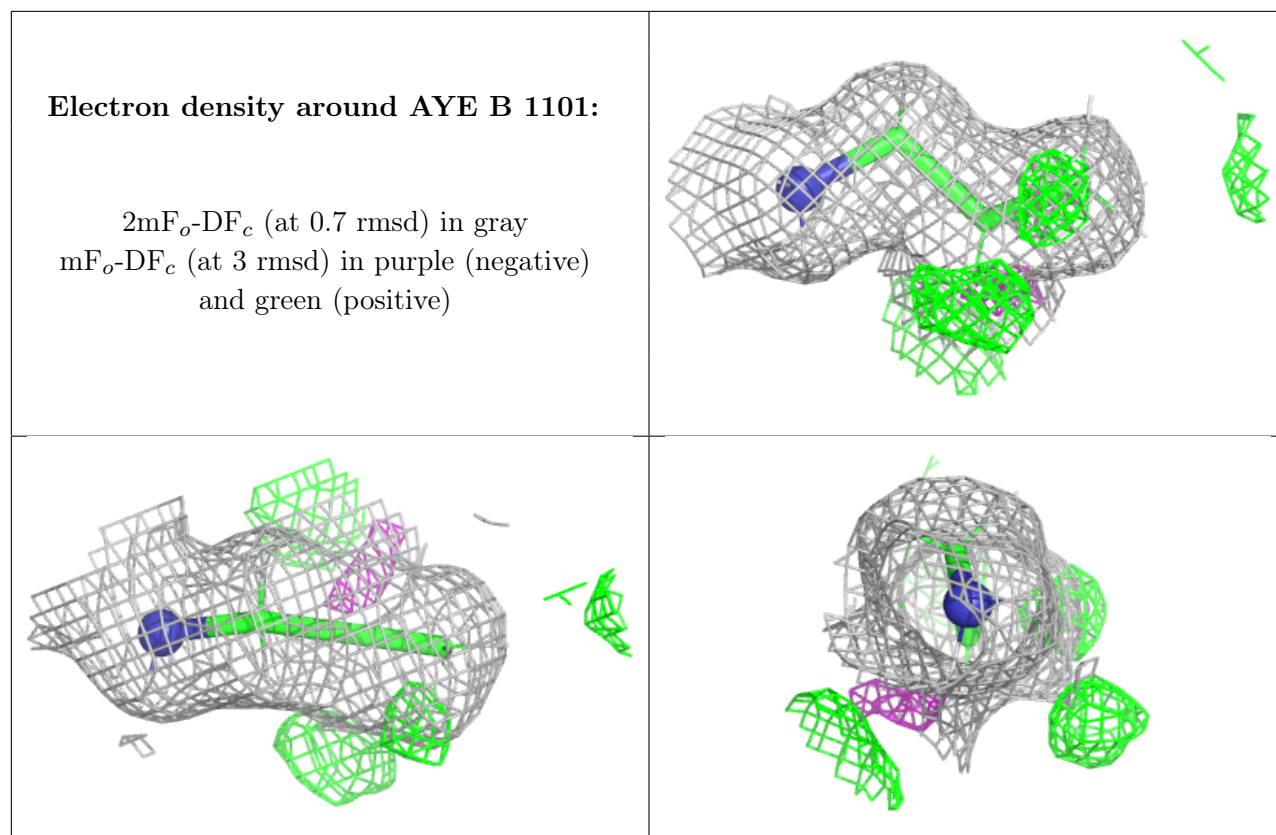
6.4 Ligands [i](#)

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
3	AYE	A	1101	4/4	0.95	0.07	15,18,26,26	0
3	AYE	B	1101	4/4	0.96	0.07	15,18,26,26	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.





6.5 Other polymers [i](#)

There are no such residues in this entry.