



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 13, 2026 – 10:44 AM UTC

PDB ID : 1N5V / pdb_00001n5v
Title : Crystal structure of a Monooxygenase from the gene ActVA-Orf6 of Streptomyces coelicolor in complex with the ligand Nanaomycin D
Authors : Sciara, G.; Kendrew, S.G.; Miele, A.E.; Marsh, N.G.; Federici, L.; Malatesta, F.; Schimperna, G.; Savino, C.; Vallone, B.
Deposited on : 2002-11-07
Resolution : 2.24 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

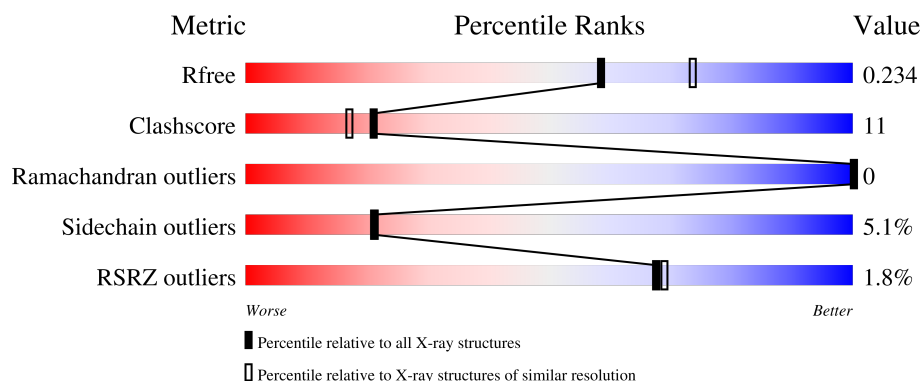
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.24 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	3416 (2.26-2.22)
Clashscore	190562	3556 (2.26-2.22)
Ramachandran outliers	187476	3500 (2.26-2.22)
Sidechain outliers	187428	3501 (2.26-2.22)
RSRZ outliers	180081	3415 (2.26-2.22)

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	112	66% 30% ..
1	B	112	3% 68% 27% 5%

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
2	NOM	A	1001	X	-	-	-

2 Entry composition [i](#)

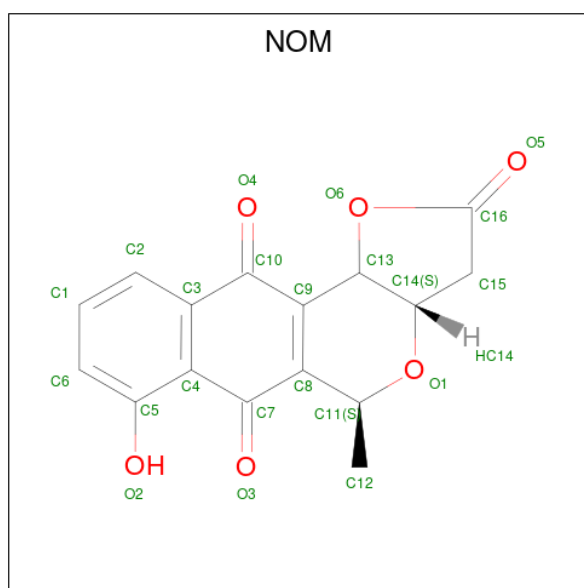
There are 3 unique types of molecules in this entry. The entry contains 1776 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 ActVA-Orf6 monooxygenase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	112	Total	C	N	O	S	0	0	0
			846	538	145	161	2			
1	B	112	Total	C	N	O	S	0	1	0
			848	539	145	162	2			

- Molecule 2 is 7-HYDROXY-5-METHYL-3,3A,5,11B-TETRAHYDRO-1,4-DIOXA-CYCLOPENTA[A]ANTHRACENE-2,6,11-TRIONE (CCD ID: NOM) (formula: C₁₆H₁₂O₆).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			22	16	6		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	36	Total	O	0	0
			36	36		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	24	Total	O	0	0
			24	24		

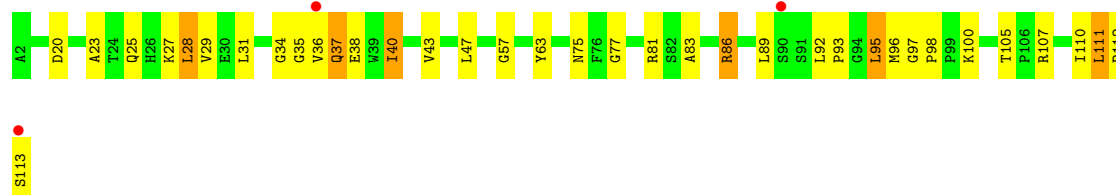
3 Residue-property plots [i](#)

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: ActVA-Orf6 monooxygenase



- Molecule 1: ActVA-Orf6 monooxygenase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	47.39Å 59.92Å 71.60Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.24 20.00 – 2.24	Depositor EDS
% Data completeness (in resolution range)	99.5 (20.00-2.24) 99.6 (20.00-2.24)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.80 (at 2.23Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.214 , 0.272 (Not available) , 0.234	Depositor DCC
R_{free} test set	493 reflections (4.82%)	wwPDB-VP
Wilson B-factor (Å ²)	27.5	Xtriage
Anisotropy	0.386	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 46.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	1776	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.09% 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: NOM

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	0.92	0/869	1.96	25/1188 (2.1%)
1	B	0.90	0/876	1.99	18/1199 (1.5%)
All	All	0.91	0/1745	1.97	43/2387 (1.8%)

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	1

There are no bond length outliers.

All (43) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	107	ARG	CD-NE-CZ	14.74	145.04	124.40
1	B	86	ARG	CD-NE-CZ	13.96	143.95	124.40
1	A	107	ARG	CD-NE-CZ	10.13	138.58	124.40
1	B	81	ARG	CD-NE-CZ	9.68	137.96	124.40
1	A	75	ASN	CA-CB-CG	-9.57	103.03	112.60
1	A	75	ASN	OD1-CG-ND2	9.22	131.82	122.60
1	A	81	ARG	NE-CZ-NH2	9.05	127.34	119.20
1	B	92	LEU	CA-C-O	8.73	127.96	119.75
1	A	52	HIS	CA-CB-CG	8.37	122.17	113.80
1	B	75	ASN	OD1-CG-ND2	-7.97	114.63	122.60
1	A	62	ASN	OD1-CG-ND2	-7.88	114.72	122.60
1	B	40	ILE	CA-C-N	7.87	131.62	120.28
1	B	40	ILE	C-N-CA	7.87	131.62	120.28
1	B	81	ARG	NE-CZ-NH2	7.85	126.27	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	81	ARG	CD-NE-CZ	-6.99	114.62	124.40
1	A	74	VAL	CB-CA-C	-6.93	102.94	112.02
1	A	111	LEU	CB-CA-C	6.76	119.05	108.63
1	A	46	PHE	CA-C-O	-6.68	113.08	120.69
1	A	79	ASP	N-CA-C	-6.38	101.50	110.31
1	B	20	ASP	CA-CB-CG	6.38	118.98	112.60
1	B	34	GLY	N-CA-C	6.09	127.62	113.18
1	A	42	GLU	CA-CB-CG	6.05	126.20	114.10
1	A	36	VAL	CA-C-O	-5.87	114.24	120.64
1	B	75	ASN	CB-CG-ND2	5.75	125.02	116.40
1	A	104	MET	CA-C-O	5.63	127.30	121.28
1	B	77	GLY	N-CA-C	5.60	120.87	113.37
1	A	21	GLY	CA-C-N	5.59	125.25	119.05
1	A	21	GLY	C-N-CA	5.59	125.25	119.05
1	A	106	PRO	CA-C-O	-5.58	114.97	121.34
1	B	93	PRO	CA-C-O	-5.34	115.25	121.34
1	A	62	ASN	CA-C-N	5.33	130.26	122.85
1	A	62	ASN	C-N-CA	5.33	130.26	122.85
1	B	83	ALA	N-CA-C	-5.30	105.58	111.36
1	B	63	TYR	CA-C-O	-5.26	114.83	120.46
1	A	109	ALA	CA-C-O	5.26	126.64	120.43
1	A	94	GLY	N-CA-C	-5.21	108.15	114.92
1	A	107	ARG	CA-C-N	5.15	126.65	121.35
1	A	107	ARG	C-N-CA	5.15	126.65	121.35
1	A	81	ARG	NE-CZ-NH1	-5.13	116.37	121.50
1	B	92	LEU	O-C-N	-5.06	116.80	121.30
1	A	41	ARG	CD-NE-CZ	-5.05	117.33	124.40
1	B	105[A]	THR	CA-C-O	-5.01	114.58	119.69
1	B	105[B]	THR	CA-C-O	-5.01	114.58	119.69

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	35	GLY	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	846	0	822	18	0
1	B	848	0	825	19	0
2	A	22	0	10	4	0
3	A	36	0	0	1	0
3	B	24	0	0	1	0
All	All	1776	0	1657	37	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 11.

All (37) 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:A:1001:NOM:O6	2:A:1001:NOM:C13	1.70	1.38
1:A:92:LEU:HD12	1:A:93:PRO:HD2	1.58	0.86
1:B:28:LEU:CD1	1:B:89:LEU:HD22	2.28	0.63
1:A:72:TYR:OH	2:A:1001:NOM:H122	1.99	0.63
1:B:23:ALA:O	1:B:27:LYS:HG2	1.99	0.62
1:B:95:LEU:HD22	1:B:97:GLY:O	2.00	0.59
1:B:98:PRO:HG2	1:B:100:LYS:NZ	2.17	0.59
1:A:92:LEU:HD12	1:A:93:PRO:CD	2.32	0.57
1:A:90:SER:HA	1:A:95:LEU:HD23	1.86	0.56
1:B:40:ILE:HA	1:B:43:VAL:HG23	1.88	0.56
1:A:43:VAL:CG1	1:A:75:ASN:HB3	2.36	0.56
1:A:43:VAL:HG13	1:A:75:ASN:HB3	1.88	0.55
1:A:71:ALA:O	1:A:75:ASN:HB2	2.07	0.54
1:B:28:LEU:HD13	1:B:89:LEU:HD22	1.90	0.54
1:A:90:SER:HA	1:A:95:LEU:CD2	2.39	0.53
1:B:36:VAL:HG13	1:B:37:GLN:OE1	2.09	0.53
1:B:31:LEU:HD23	1:B:89:LEU:HD23	1.91	0.53
1:B:100:LYS:HD2	3:B:124:HOH:O	2.10	0.52
1:B:110:ILE:HD12	1:B:110:ILE:N	2.27	0.49
1:A:86:ARG:HG3	2:A:1001:NOM:O5	2.13	0.48
1:B:111:LEU:HB3	1:B:112:PRO:HD2	1.95	0.48
1:B:98:PRO:HG2	1:B:100:LYS:HZ3	1.79	0.47
1:A:36:VAL:HB	3:A:1025:HOH:O	2.16	0.46
1:A:80:PRO:O	1:A:84:GLU:HG3	2.16	0.46
1:A:112:PRO:HD3	1:B:47:LEU:O	2.16	0.46
1:A:43:VAL:HA	1:A:44:PRO:HD3	1.90	0.45
1:A:6:ASP:HA	1:A:7:PRO:HD3	1.88	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:35:GLY:O	1:B:38:GLU:HB2	2.17	0.44
1:A:20:ASP:OD1	1:A:24:THR:OG1	2.27	0.44
1:A:47:LEU:O	1:A:48:SER:HB3	2.18	0.43
1:A:41:ARG:HD2	1:B:111:LEU:O	2.18	0.43
1:B:25:GLN:NE2	1:B:57:GLY:HA2	2.33	0.43
2:A:1001:NOM:O3	2:A:1001:NOM:C12	2.65	0.42
1:B:96:MET:HA	1:B:96:MET:HE2	2.01	0.42
1:A:35:GLY:O	1:A:36:VAL:C	2.63	0.41
1:B:25:GLN:O	1:B:29:VAL:HG23	2.21	0.41
1:B:28:LEU:HD12	1:B:28:LEU:O	2.20	0.41

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	110/112 (98%)	107 (97%)	3 (3%)	0	100	100
1	B	111/112 (99%)	109 (98%)	2 (2%)	0	100	100
All	All	221/224 (99%)	216 (98%)	5 (2%)	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	A	88/88 (100%)	85 (97%)	3 (3%)	32	38
1	B	89/88 (101%)	83 (93%)	6 (7%)	15	12
All	All	177/176 (101%)	168 (95%)	9 (5%)	21	21

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	36	VAL
1	A	105	THR
1	A	113	SER
1	B	28	LEU
1	B	37	GLN
1	B	86	ARG
1	B	95	LEU
1	B	111	LEU
1	B	113	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	75	ASN
1	B	62	ASN
1	B	75	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](#)

1 ligand is 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
2	NOM	A	1001	-	25,25,25	3.96	8 (32%)	32,39,39	4.14	13 (40%)

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 Torsions and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NOM	A	1001	-	2/2/8/8	-	0/4/4/4

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1001	NOM	O6-C13	14.16	1.70	1.45
2	A	1001	NOM	C11-C8	-9.69	1.38	1.51
2	A	1001	NOM	O6-C16	-6.38	1.24	1.35
2	A	1001	NOM	C13-C9	-4.63	1.39	1.50
2	A	1001	NOM	C15-C16	3.18	1.55	1.50
2	A	1001	NOM	C8-C9	2.69	1.41	1.34
2	A	1001	NOM	C3-C10	-2.41	1.43	1.48
2	A	1001	NOM	O1-C14	-2.02	1.39	1.44

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1001	NOM	O1-C11-C8	13.28	123.36	110.42
2	A	1001	NOM	O6-C16-C15	8.85	118.18	110.18
2	A	1001	NOM	O5-C16-C15	-8.64	117.78	128.99
2	A	1001	NOM	C12-C11-C8	7.93	123.49	112.53
2	A	1001	NOM	C11-C8-C7	7.75	123.78	117.08
2	A	1001	NOM	C13-O6-C16	-4.03	106.68	110.15
2	A	1001	NOM	C15-C14-C13	3.50	107.95	102.48
2	A	1001	NOM	O1-C14-C15	3.37	116.87	107.25
2	A	1001	NOM	O3-C7-C8	-3.04	115.86	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1001	NOM	O6-C16-O5	2.97	124.04	120.83
2	A	1001	NOM	O6-C13-C14	-2.69	100.53	104.14
2	A	1001	NOM	O4-C10-C9	-2.67	116.50	121.14
2	A	1001	NOM	C4-C3-C10	-2.13	117.27	120.44

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	1001	NOM	C13
2	A	1001	NOM	C11

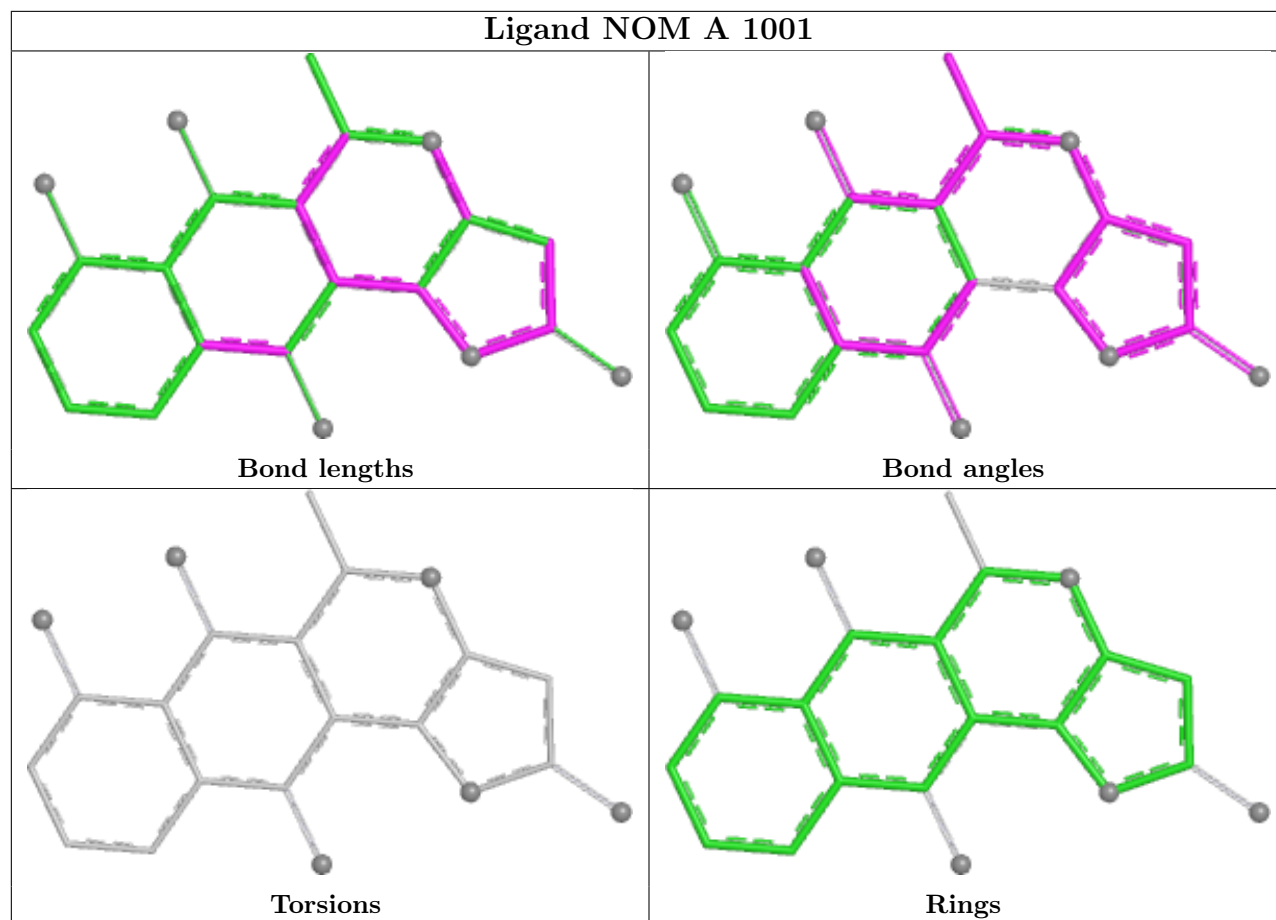
There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1001	NOM	4	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 [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	112/112 (100%)	-0.13	1 (0%) 81 82	19, 32, 49, 59	0
1	B	112/112 (100%)	0.17	3 (2%) 56 57	19, 36, 60, 65	1 (0%)
All	All	224/224 (100%)	0.02	4 (1%) 67 69	19, 34, 58, 65	1 (0%)

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	113	SER	3.4
1	B	36	VAL	3.3
1	B	113	SER	2.7
1	B	90	SER	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](#)

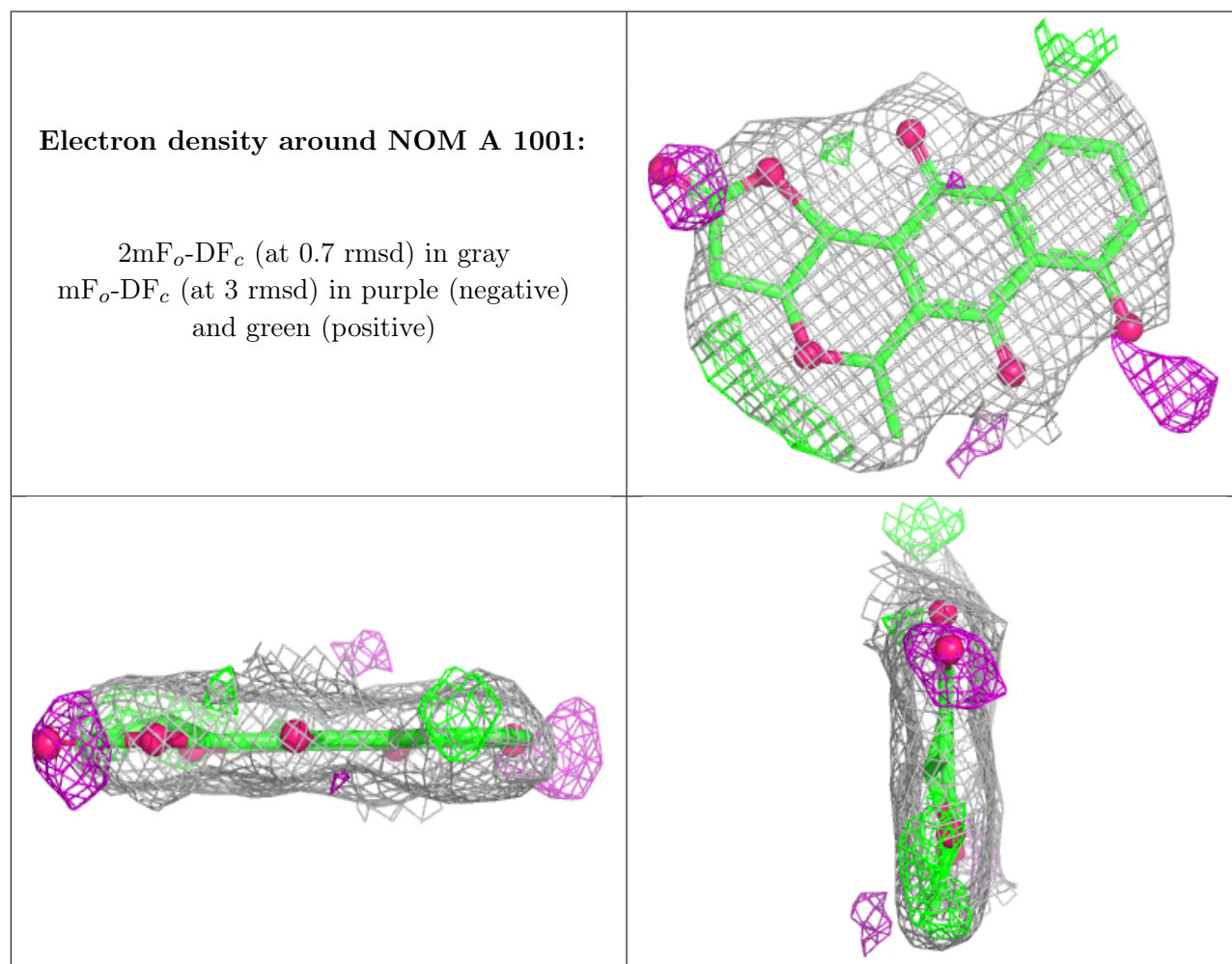
There are no oligosaccharides in this entry.

6.4 Ligands [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
2	NOM	A	1001	22/22	0.77	0.14	45,50,53,57	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.