



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 02:21 PM UTC

PDB ID : 5Y3I / pdb_00005y3i
Title : Crystal structure of Plasmodium falciparum aminopeptidase N in complex with (S)-N-hydroxy-4-methyl-2-(3-(3-methylbenzyl)ureido)pentanamide
Authors : Marapaka, A.K.; Zhang, Y.; Addlagatta, A.
Deposited on : 2017-07-28
Resolution : 1.73 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

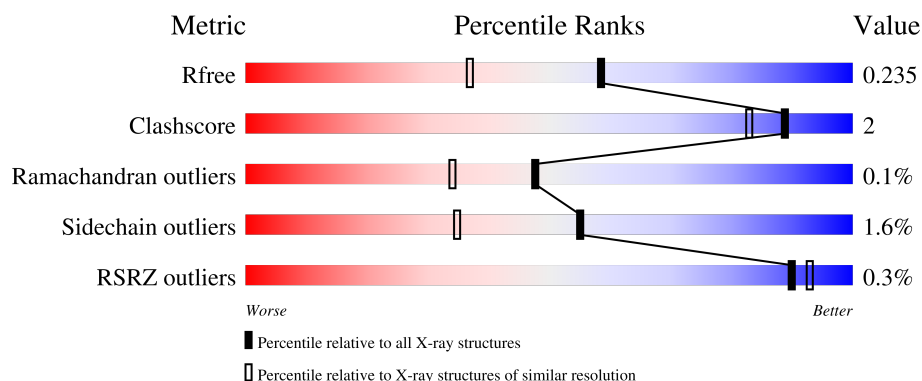
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.73 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	1187 (1.74-1.74)
Clashscore	190562	1207 (1.74-1.74)
Ramachandran outliers	187476	1200 (1.74-1.74)
Sidechain outliers	187428	1200 (1.74-1.74)
RSRZ outliers	180081	1188 (1.74-1.74)

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	914	

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
5	GOL	A	1109	-	-	X	-

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 8033 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 M1 family aminopeptidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	890	7359	4727	1197	1407	28	0	11	0

There are 23 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	172	MET	-	expression tag	UNP O96935
A	173	GLY	-	expression tag	UNP O96935
A	174	SER	-	expression tag	UNP O96935
A	175	SER	-	expression tag	UNP O96935
A	176	HIS	-	expression tag	UNP O96935
A	177	HIS	-	expression tag	UNP O96935
A	178	HIS	-	expression tag	UNP O96935
A	179	HIS	-	expression tag	UNP O96935
A	180	HIS	-	expression tag	UNP O96935
A	181	HIS	-	expression tag	UNP O96935
A	182	SER	-	expression tag	UNP O96935
A	183	SER	-	expression tag	UNP O96935
A	184	GLY	-	expression tag	UNP O96935
A	185	LEU	-	expression tag	UNP O96935
A	186	VAL	-	expression tag	UNP O96935
A	187	PRO	-	expression tag	UNP O96935
A	188	ARG	-	expression tag	UNP O96935
A	189	GLY	-	expression tag	UNP O96935
A	190	SER	-	expression tag	UNP O96935
A	191	HIS	-	expression tag	UNP O96935
A	192	MET	-	expression tag	UNP O96935
A	193	ALA	-	expression tag	UNP O96935
A	194	SER	-	expression tag	UNP O96935

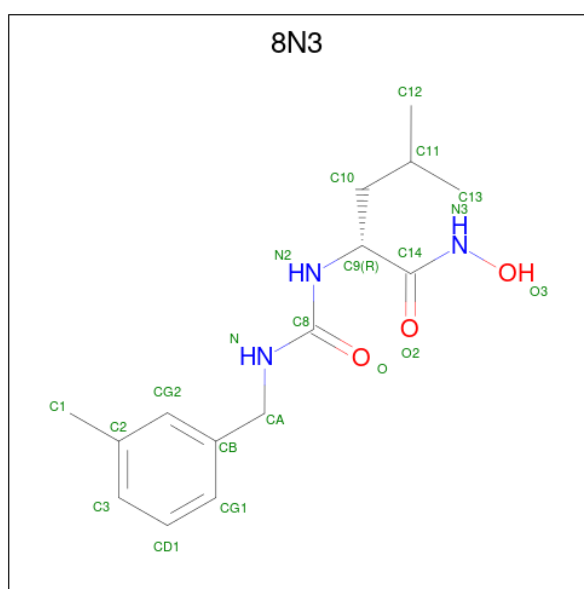
- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Zn	0	0
			1	1		

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	3	Total	Mg	0	0
			3	3		

- Molecule 4 is (2R)-4-methyl-2-[(3-methylphenyl)methylcarbamoylamino]-N-oxidanyl-pentamide (CCD ID: 8N3) (formula: C₁₅H₂₃N₃O₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			21	15	3	3		

- Molecule 5 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			6	3	3		
5	A	1	Total	C	O	0	0
			6	3	3		
5	A	1	Total	C	O	0	0
			6	3	3		
5	A	1	Total	C	O	0	0
			6	3	3		

- Molecule 6 is water.

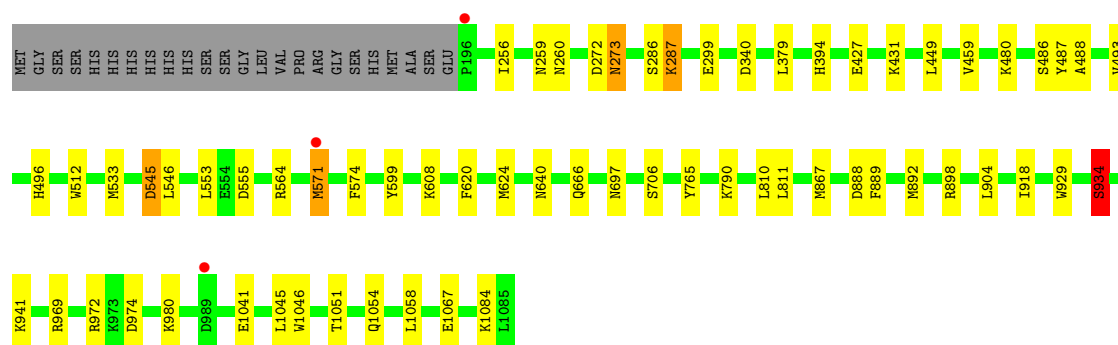
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	625	Total	O	0	0
			625	625		

3 Residue-property plots

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: M1 family aminopeptidase

Chain A:  90% 6% .



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	74.44Å 109.27Å 112.50Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	25.00 – 1.73 25.00 – 1.73	Depositor EDS
% Data completeness (in resolution range)	99.1 (25.00-1.73) 99.2 (25.00-1.73)	Depositor EDS
R_{merge}	0.03	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	22.63 (at 1.73Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
R, R_{free}	0.160 , 0.196 (Not available) , 0.235	Depositor DCC
R_{free} test set	4838 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	17.0	Xtriage
Anisotropy	0.016	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 33.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.005 for -h,l,k	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8033	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.46% 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: ZN, GOL, 8N3, MG

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	1.30	12/7555 (0.2%)	1.14	14/10212 (0.1%)

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	449	LEU	N-CA	13.88	1.62	1.46
1	A	564	ARG	CZ-NH1	9.87	1.46	1.32
1	A	599	TYR	N-CA	6.12	1.53	1.46
1	A	666	GLN	CA-C	6.11	1.59	1.52
1	A	706	SER	C-O	-6.01	1.16	1.23
1	A	256	ILE	N-CA	-5.89	1.39	1.46
1	A	488	ALA	N-CA	-5.88	1.39	1.46
1	A	486	SER	CA-C	-5.55	1.45	1.52
1	A	929	TRP	C-O	-5.29	1.17	1.24
1	A	934	SER	CB-OG	-5.15	1.31	1.42
1	A	697	ASN	CA-C	5.05	1.58	1.52
1	A	340	ASP	N-CA	5.01	1.52	1.46

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	564	ARG	NE-CZ-NH2	-9.30	110.83	119.20
1	A	564	ARG	NE-CZ-NH1	7.83	129.33	121.50
1	A	1051	THR	N-CA-C	6.39	119.24	111.82
1	A	571	MET	CG-SD-CE	6.38	114.95	100.90
1	A	574	PHE	CB-CA-C	6.01	120.71	110.56
1	A	394	HIS	N-CA-C	5.86	118.09	109.24
1	A	1067	GLU	CA-C-N	-5.58	114.01	119.76
1	A	1067	GLU	C-N-CA	-5.58	114.01	119.76
1	A	929	TRP	CA-CB-CG	5.41	123.88	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	898	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	A	299	GLU	CB-CG-CD	5.34	121.67	112.60
1	A	480	LYS	CA-CB-CG	5.12	124.35	114.10
1	A	1084	LYS	CB-CG-CD	5.10	123.03	111.30
1	A	487	TYR	N-CA-C	5.06	116.80	111.28

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	A	7359	0	7305	27	0
2	A	1	0	0	0	0
3	A	3	0	0	0	0
4	A	21	0	0	0	0
5	A	24	0	31	9	0
6	A	625	0	0	5	0
All	All	8033	0	7336	28	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 2.

All (28) 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:640[B]:ASN:OD1	6:A:1201:HOH:O	2.04	0.75
1:A:545:ASP:OD1	1:A:765:TYR:OH	2.07	0.73
1:A:889:PHE:H	5:A:1109:GOL:H32	1.53	0.72
1:A:969:ARG:HG3	6:A:1286:HOH:O	1.99	0.63
1:A:934:SER:HB3	6:A:1286:HOH:O	1.97	0.62
1:A:496:HIS:CD2	5:A:1106:GOL:O1	2.56	0.59
1:A:493:VAL:HG22	5:A:1106:GOL:H31	1.85	0.58
1:A:889:PHE:H	5:A:1109:GOL:C3	2.18	0.56
5:A:1106:GOL:H32	6:A:1636:HOH:O	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:811:LEU:HB3	1:A:867[A]:MET:SD	2.47	0.55
1:A:553:LEU:C	1:A:553:LEU:HD23	2.33	0.53
1:A:889:PHE:N	5:A:1109:GOL:H32	2.24	0.53
1:A:918:ILE:HD11	1:A:941:LYS:HE2	1.92	0.52
1:A:904:LEU:HD23	5:A:1108:GOL:H2	1.92	0.52
1:A:1046:TRP:O	1:A:1054:GLN:HG2	2.14	0.47
1:A:918:ILE:HD11	1:A:941:LYS:HG2	1.96	0.47
1:A:272:ASP:O	1:A:273:ASN:HB2	2.15	0.47
1:A:533:MET:O	5:A:1109:GOL:H11	2.17	0.45
1:A:512:TRP:HB3	1:A:571:MET:HG2	1.99	0.44
1:A:546[B]:LEU:HD23	6:A:1781:HOH:O	2.16	0.44
1:A:620:PHE:CZ	1:A:624:MET:HE3	2.53	0.43
1:A:892:MET:HE3	1:A:892:MET:HB2	1.85	0.42
1:A:259:ASN:O	1:A:260[A]:ASN:HB2	2.20	0.42
1:A:427:GLU:HG3	1:A:431:LYS:HE2	2.02	0.41
1:A:918:ILE:CD1	1:A:941:LYS:HE2	2.50	0.41
1:A:286:SER:O	1:A:287:LYS:C	2.63	0.41
1:A:888:ASP:HA	5:A:1109:GOL:H32	2.04	0.40
1:A:972:ARG:HB3	1:A:974:ASP:OD1	2.22	0.40

There are no symmetry-related clashes.

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	899/914 (98%)	882 (98%)	16 (2%)	1 (0%)	48 34

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	459	VAL

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	833/842 (99%)	820 (98%)	13 (2%)	55 35

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	273	ASN
1	A	287	LYS
1	A	379	LEU
1	A	545	ASP
1	A	555	ASP
1	A	608	LYS
1	A	790	LYS
1	A	810	LEU
1	A	934	SER
1	A	980	LYS
1	A	1041	GLU
1	A	1045	LEU
1	A	1058	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	212	ASN
1	A	297	HIS
1	A	375	ASN
1	A	468	ASN
1	A	621	ASN
1	A	666	GLN
1	A	775	GLN
1	A	779	ASN
1	A	829	GLN

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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 9 ligands modelled in this entry, 4 are monoatomic - leaving 5 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$
5	GOL	A	1107	-	5,5,5	0.62	0	5,5,5	1.57	1 (20%)
5	GOL	A	1109	-	5,5,5	1.76	2 (40%)	5,5,5	2.97	1 (20%)
5	GOL	A	1108	-	5,5,5	0.32	0	5,5,5	1.14	1 (20%)
5	GOL	A	1106	-	5,5,5	2.45	1 (20%)	5,5,5	1.45	1 (20%)
4	8N3	A	1105	2	20,21,21	3.15	9 (45%)	25,27,27	2.96	3 (12%)

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
5	GOL	A	1107	-	-	3/4/4/4	-
5	GOL	A	1109	-	-	0/4/4/4	-
5	GOL	A	1108	-	-	0/4/4/4	-
5	GOL	A	1106	-	-	0/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	8N3	A	1105	2	-	4/19/19/19	0/1/1/1

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1105	8N3	CA-N	-7.42	1.31	1.46
4	A	1105	8N3	CA-CB	-6.64	1.36	1.51
4	A	1105	8N3	C8-N	-6.31	1.22	1.35
5	A	1106	GOL	C3-C2	-4.95	1.32	1.51
4	A	1105	8N3	C9-N2	-4.07	1.37	1.45
4	A	1105	8N3	CG2-C2	-3.65	1.33	1.39
4	A	1105	8N3	C8-N2	2.68	1.43	1.35
4	A	1105	8N3	C10-C9	-2.59	1.45	1.53
5	A	1109	GOL	O3-C3	2.49	1.52	1.42
5	A	1109	GOL	C1-C2	-2.37	1.42	1.51
4	A	1105	8N3	O-C8	-2.08	1.18	1.23
4	A	1105	8N3	CD1-CG1	-2.01	1.35	1.38

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1105	8N3	CB-CA-N	13.57	141.69	113.07
5	A	1109	GOL	O3-C3-C2	6.46	139.44	110.38
4	A	1105	8N3	N-C8-N2	-2.88	108.63	115.82
5	A	1106	GOL	O1-C1-C2	-2.35	99.80	110.38
5	A	1107	GOL	O2-C2-C1	-2.12	100.39	109.18
4	A	1105	8N3	C11-C10-C9	-2.12	109.70	115.40
5	A	1108	GOL	O1-C1-C2	2.07	119.68	110.38

There are no chirality outliers.

All (7) torsion outliers are listed below:

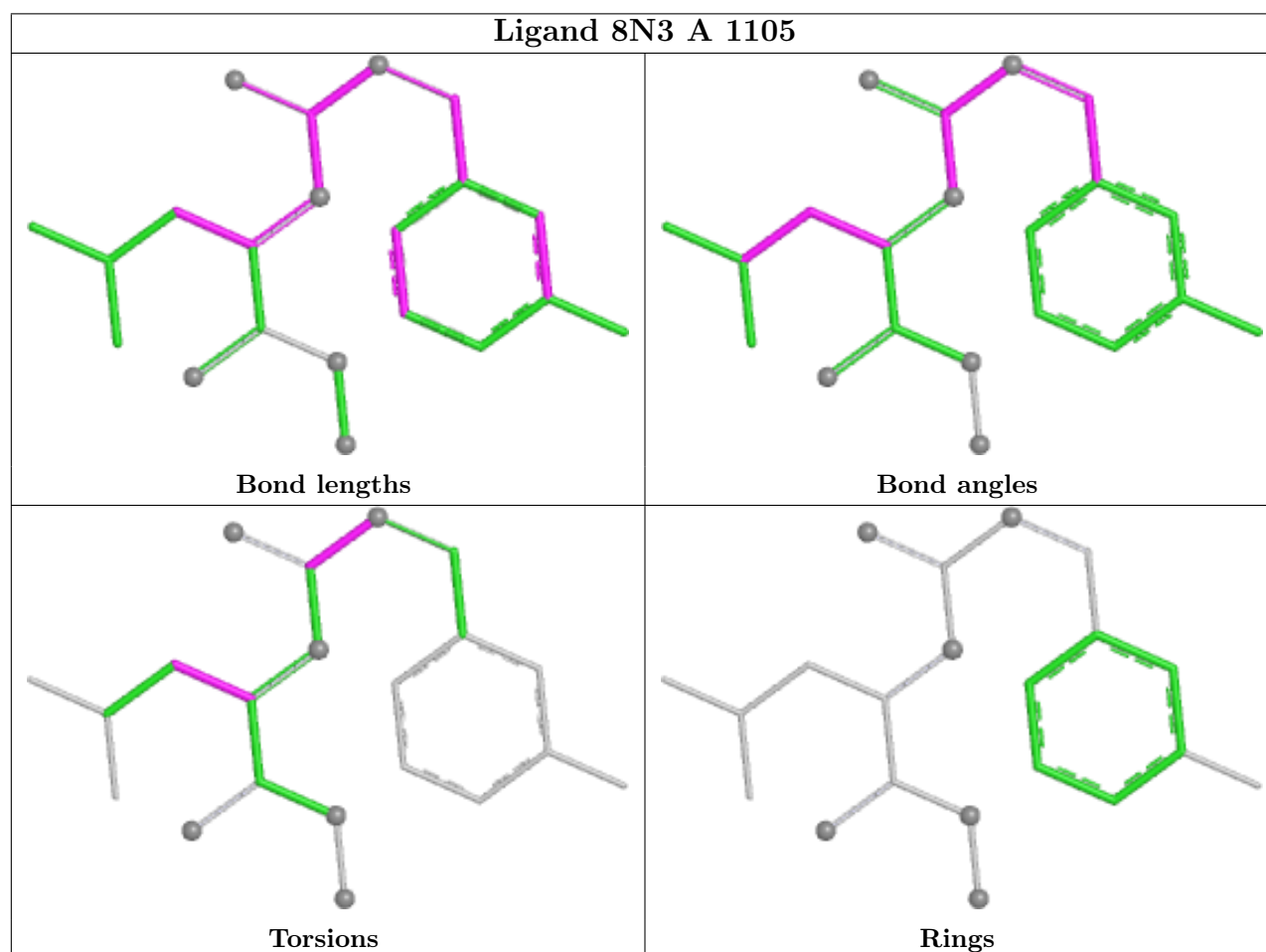
Mol	Chain	Res	Type	Atoms
5	A	1107	GOL	O1-C1-C2-C3
4	A	1105	8N3	O-C8-N-CA
4	A	1105	8N3	N2-C8-N-CA
5	A	1107	GOL	O1-C1-C2-O2
4	A	1105	8N3	C11-C10-C9-C14
4	A	1105	8N3	C11-C10-C9-N2
5	A	1107	GOL	C1-C2-C3-O3

There are no ring outliers.

3 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	1109	GOL	5	0
5	A	1108	GOL	1	0
5	A	1106	GOL	3	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	890/914 (97%)	-0.32	3 (0%) 90 93	8, 16, 30, 54	11 (1%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	196	PRO	3.2
1	A	989	ASP	2.2
1	A	571	MET	2.2

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.

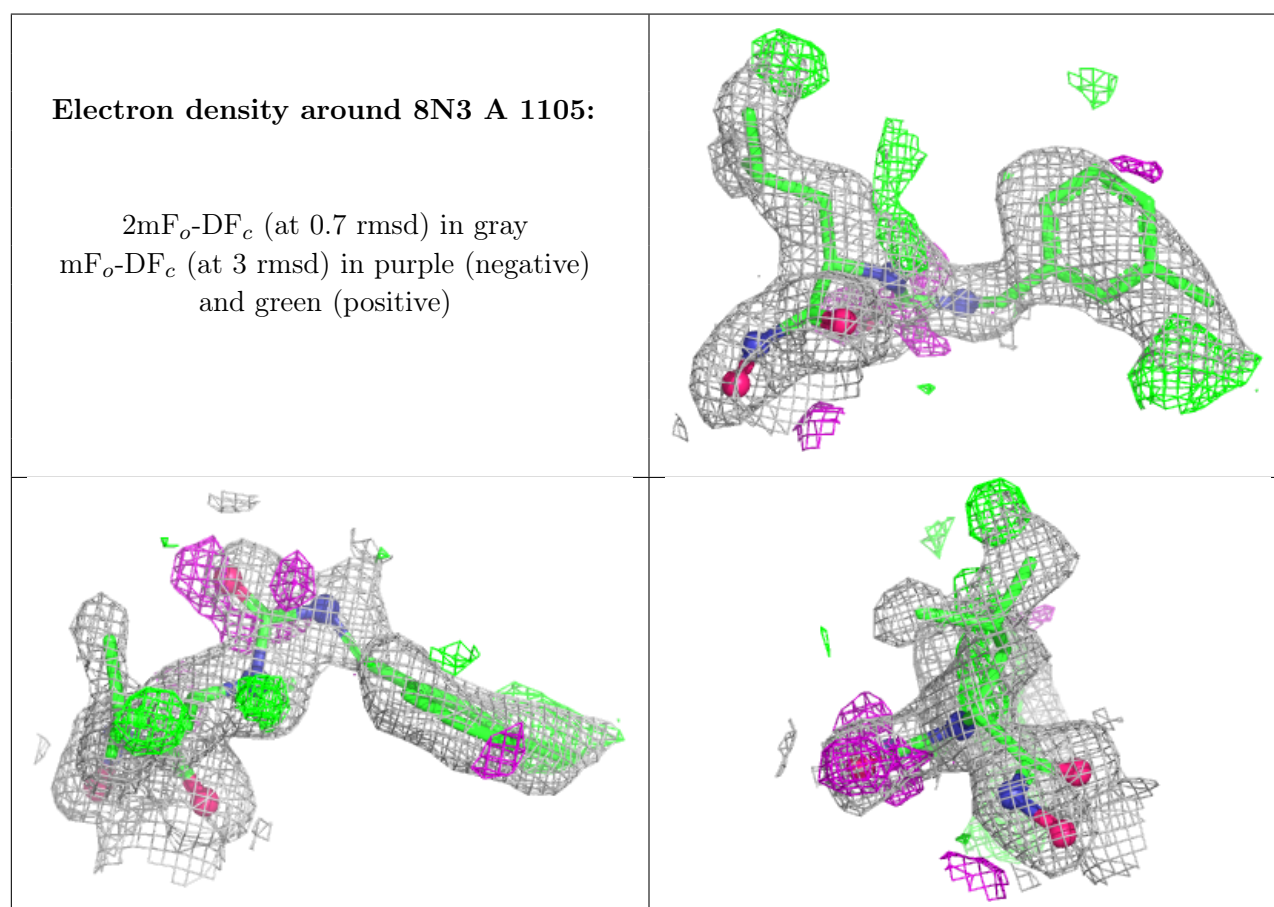
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	GOL	A	1107	6/6	0.83	0.14	29,33,36,44	0
5	GOL	A	1106	6/6	0.84	0.19	14,23,33,36	0
5	GOL	A	1109	6/6	0.85	0.13	19,25,35,36	0
5	GOL	A	1108	6/6	0.89	0.12	24,30,37,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	8N3	A	1105	21/21	0.89	0.13	13,21,38,41	0
3	MG	A	1104	1/1	0.97	0.08	19,19,19,19	0
3	MG	A	1103	1/1	0.97	0.13	23,23,23,23	0
3	MG	A	1102	1/1	0.98	0.18	26,26,26,26	0
2	ZN	A	1101	1/1	1.00	0.02	12,12,12,12	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 ⓘ

There are no such residues in this entry.