



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 03:08 AM UTC

PDB ID : 6EUC / pdb_00006euc
Title : Reactivating oxime bound to Tc AChE's catalytic gorge.
Authors : de la Mora, E.; Weik, M.; Braiki, A.; Mougeot, R.; Jean, L.; Renard, P.I.
Deposited on : 2017-10-30
Resolution : 2.22 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

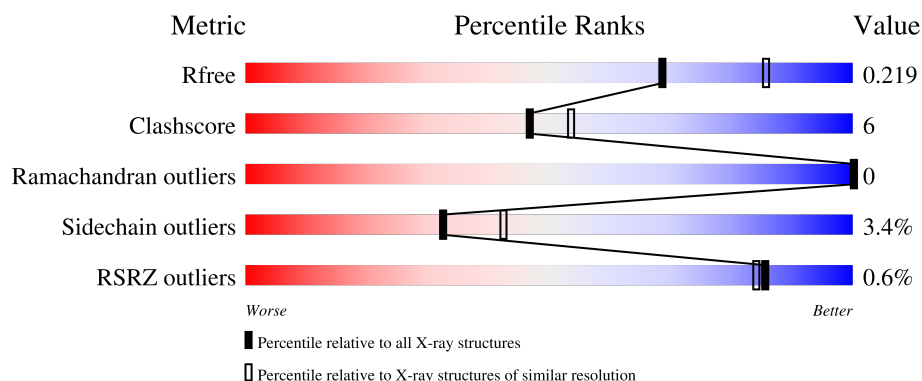
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

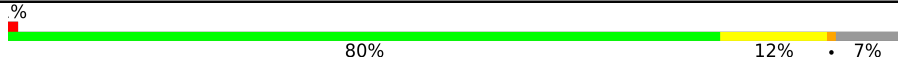
The reported resolution of this entry is 2.22 Å.

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	7682 (2.24-2.20)
Clashscore	190562	8402 (2.24-2.20)
Ramachandran outliers	187476	8303 (2.24-2.20)
Sidechain outliers	187428	8304 (2.24-2.20)
RSRZ outliers	180081	7683 (2.24-2.20)

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	572	

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 4774 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 Acetylcholinesterase.

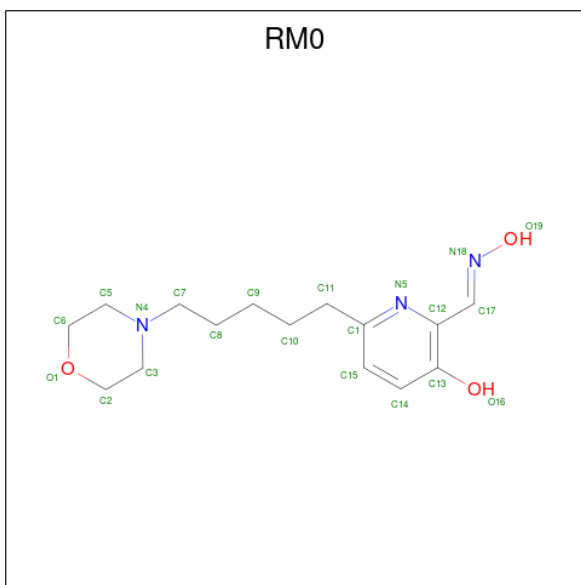
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	532	Total	C	N	O	S	0	5	0
			4277	2742	727	786	22			

- Molecule 2 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



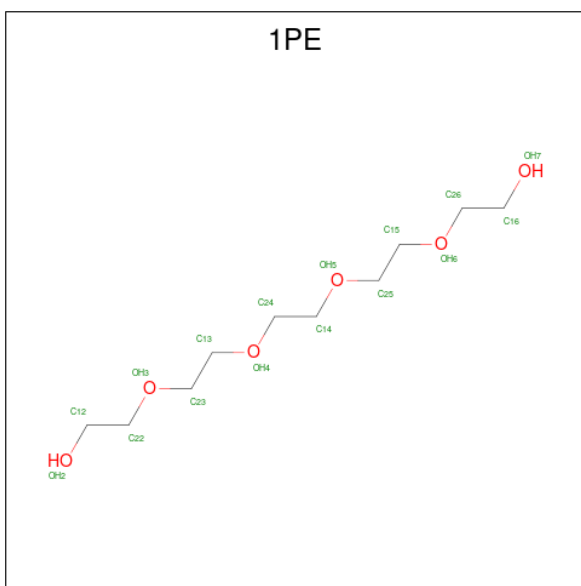
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			14	8	1	5		
2	A	1	Total	C	N	O	0	0
			14	8	1	5		
2	A	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 3 is 2-[({E})-hydroxyiminomethyl]-6-(5-morpholin-4-ylpentyl)pyridin-3-ol (CCD ID: RM0) (formula: $C_{15}H_{23}N_3O_3$).



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

- Molecule 4 is PENTAETHYLENE GLYCOL (CCD ID: 1PE) (formula: $C_{10}H_{22}O_6$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			10	6	4		
4	A	1	Total	C	O	0	0
			10	6	4		
4	A	1	Total	C	O	0	0
			7	4	3		

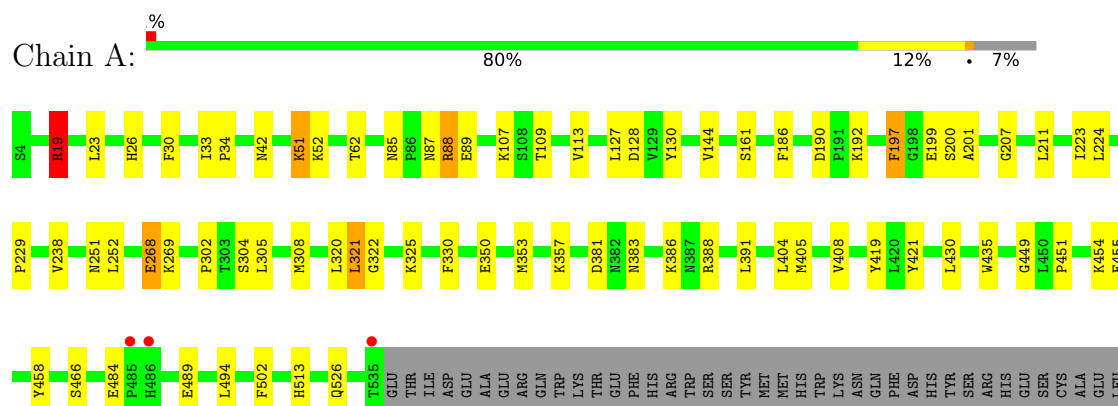
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	407	Total 407	O 407	0	0

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: Acetylcholinesterase



4 Data and refinement statistics

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, α , β , γ	111.52Å 111.52Å 136.64Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	29.12 – 2.22 29.12 – 2.22	Depositor EDS
% Data completeness (in resolution range)	99.2 (29.12-2.22) 89.8 (29.12-2.22)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.91 (at 2.22Å)	Xtriage
Refinement program	PHENIX 1.11.1_2575	Depositor
R, R_{free}	0.177 , 0.220 0.177 , 0.219	Depositor DCC
R_{free} test set	2017 reflections (4.11%)	wwPDB-VP
Wilson B-factor (Å ²)	26.3	Xtriage
Anisotropy	0.661	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 38.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.035 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4774	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.83% 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: 1PE, NAG, RM0

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	0.60	9/4415 (0.2%)	0.72	16/5992 (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	2

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	200	SER	C-O	-7.84	1.17	1.24
1	A	19[A]	ARG	C-N	-5.98	1.26	1.33
1	A	19[B]	ARG	C-N	-5.98	1.26	1.33
1	A	268[A]	GLU	CA-C	5.97	1.61	1.52
1	A	268[B]	GLU	CA-C	5.97	1.61	1.52
1	A	201	ALA	C-O	-5.33	1.17	1.24
1	A	88[A]	ARG	CA-C	5.11	1.58	1.52
1	A	88[B]	ARG	CA-C	5.11	1.58	1.52
1	A	199	GLU	C-O	-5.08	1.17	1.24

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	87	ASN	CA-C-N	15.95	147.50	122.62
1	A	87	ASN	C-N-CA	15.95	147.50	122.62
1	A	19[A]	ARG	O-C-N	-8.70	112.32	123.02
1	A	19[B]	ARG	O-C-N	-8.70	112.32	123.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	268[A]	GLU	CA-C-O	6.47	127.33	119.38
1	A	268[B]	GLU	CA-C-O	6.47	127.33	119.38
1	A	88[A]	ARG	O-C-N	-6.05	115.80	123.24
1	A	88[B]	ARG	O-C-N	-6.05	115.80	123.24
1	A	87	ASN	N-CA-C	6.00	120.62	112.88
1	A	19[A]	ARG	CA-C-O	5.90	127.42	120.58
1	A	19[B]	ARG	CA-C-O	5.90	127.42	120.58
1	A	484	GLU	CA-C-N	-5.47	114.33	119.85
1	A	484	GLU	C-N-CA	-5.47	114.33	119.85
1	A	19[A]	ARG	N-CA-C	5.13	117.10	109.25
1	A	19[B]	ARG	N-CA-C	5.13	117.10	109.25
1	A	381	ASP	N-CA-C	5.08	118.74	112.54

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	19[A]	ARG	Mainchain
1	A	19[B]	ARG	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	4277	0	4140	47	0
2	A	42	0	39	1	0
3	A	21	0	0	2	0
4	A	27	0	35	5	0
5	A	407	0	0	9	0
All	All	4774	0	4214	49	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 6.

All (49) 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:42[B]:ASN:OD1	5:A:701:HOH:O	1.91	0.87
1:A:357:LYS:HE2	5:A:1006:HOH:O	1.84	0.76
3:A:604:RM0:O16	3:A:604:RM0:N18	2.26	0.69
1:A:268[B]:GLU:OE2	5:A:702:HOH:O	2.12	0.67
1:A:251:ASN:HA	4:A:606:1PE:H242	1.80	0.63
3:A:604:RM0:N18	4:A:605:1PE:H131	2.20	0.56
1:A:357:LYS:NZ	5:A:711:HOH:O	2.38	0.55
1:A:42[B]:ASN:CG	5:A:701:HOH:O	2.44	0.55
1:A:186:PHE:O	4:A:607:1PE:H132	2.09	0.53
1:A:455:GLU:O	2:A:603:NAG:H82	2.10	0.52
1:A:128:ASP:OD1	5:A:703:HOH:O	2.19	0.51
1:A:321:LEU:HD12	1:A:321:LEU:N	2.26	0.49
1:A:197:PHE:HB3	1:A:223:ILE:HB	1.94	0.49
1:A:502:PHE:CZ	1:A:513:HIS:HB2	2.49	0.48
1:A:107:LYS:HD3	4:A:607:1PE:H121	1.95	0.48
1:A:451:PRO:HA	1:A:458:TYR:CD1	2.49	0.47
1:A:42[B]:ASN:ND2	5:A:701:HOH:O	2.49	0.46
1:A:252:LEU:HB3	1:A:269:LYS:HE3	1.99	0.45
1:A:325:LYS:NZ	5:A:723:HOH:O	2.49	0.45
1:A:383:ASN:HB3	1:A:386:LYS:HB2	1.99	0.45
1:A:190:ASP:OD1	1:A:192:LYS:HG2	2.17	0.45
1:A:19[A]:ARG:CZ	1:A:26:HIS:HB2	2.47	0.45
1:A:223:ILE:HG12	1:A:320:LEU:HB3	1.99	0.45
1:A:322:GLY:HA3	1:A:421:TYR:CZ	2.52	0.44
1:A:419:TYR:CZ	1:A:494:LEU:HD13	2.52	0.44
1:A:391:LEU:HD23	1:A:391:LEU:HA	1.81	0.44
1:A:322:GLY:HA3	1:A:421:TYR:CE2	2.52	0.44
1:A:455:GLU:CD	1:A:455:GLU:H	2.26	0.43
1:A:19[A]:ARG:NH2	1:A:26:HIS:HB2	2.33	0.43
1:A:207:GLY:HA3	1:A:229:PRO:HD3	2.00	0.43
1:A:405:MET:HA	1:A:408:VAL:HG12	2.01	0.43
1:A:34:PRO:HB2	1:A:51:LYS:HG3	2.01	0.43
1:A:107:LYS:HA	4:A:607:1PE:H121	1.99	0.43
1:A:211:LEU:HD13	1:A:305:LEU:HD22	2.01	0.43
1:A:350:GLU:HA	1:A:353:MET:HE2	2.00	0.43
1:A:197:PHE:CB	1:A:223:ILE:HB	2.49	0.43
1:A:302:PRO:HD2	1:A:308:MET:SD	2.59	0.43
1:A:88[B]:ARG:HA	1:A:88[B]:ARG:HD2	1.84	0.42
1:A:30:PHE:HB3	1:A:33:ILE:HD11	2.01	0.42
1:A:113:VAL:HG22	1:A:144:VAL:HB	2.02	0.42
1:A:449:GLY:HA2	1:A:466:SER:OG	2.19	0.42
1:A:19[B]:ARG:HH11	1:A:19[B]:ARG:HD3	1.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:321:LEU:HD22	1:A:404:LEU:HD21	2.02	0.41
1:A:223:ILE:HA	1:A:320:LEU:O	2.20	0.41
1:A:85:ASN:HB3	5:A:787:HOH:O	2.20	0.41
1:A:388:ARG:NE	1:A:435:TRP:HB2	2.36	0.41
1:A:127:LEU:HD12	1:A:130:TYR:CE2	2.56	0.40
1:A:304:SER:O	1:A:308:MET:HG3	2.20	0.40
1:A:88[B]:ARG:CG	1:A:88[B]:ARG:HH21	2.33	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	535/572 (94%)	510 (95%)	25 (5%)	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	470/503 (93%)	454 (97%)	16 (3%)	32	42

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	23	LEU
1	A	51	LYS
1	A	52	LYS
1	A	62	THR
1	A	89	GLU
1	A	109	THR
1	A	161	SER
1	A	197	PHE
1	A	224	LEU
1	A	238	VAL
1	A	321	LEU
1	A	330	PHE
1	A	430	LEU
1	A	454	LYS
1	A	489	GLU
1	A	526	GLN

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	26	HIS
1	A	65	ASN
1	A	251	ASN
1	A	280	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](#)

7 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	$\# Z > 2$
2	NAG	A	602	1	14,14,15	0.55	0	17,19,21	0.61	0
3	RM0	A	604	-	21,22,22	3.14	5 (23%)	23,27,27	1.43	4 (17%)
4	1PE	A	605	-	9,9,15	0.80	0	8,8,14	0.39	0
2	NAG	A	603	-	14,14,15	0.24	0	17,19,21	0.46	0
2	NAG	A	601	1	14,14,15	0.29	0	17,19,21	0.82	1 (5%)
4	1PE	A	607	-	6,6,15	0.80	0	5,5,14	0.49	0
4	1PE	A	606	-	9,9,15	0.81	0	8,8,14	0.49	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
2	NAG	A	602	1	-	4/6/23/26	0/1/1/1
3	RM0	A	604	-	-	3/11/19/19	0/2/2/2
4	1PE	A	605	-	-	1/7/7/13	-
2	NAG	A	603	-	-	2/6/23/26	0/1/1/1
2	NAG	A	601	1	-	0/6/23/26	0/1/1/1
4	1PE	A	607	-	-	1/4/4/13	-
4	1PE	A	606	-	-	7/7/7/13	-

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	604	RM0	C17-N18	9.80	1.46	1.27
3	A	604	RM0	C7-N4	-8.52	1.28	1.47
3	A	604	RM0	C3-N4	-3.03	1.38	1.46
3	A	604	RM0	C5-N4	-2.93	1.39	1.46
3	A	604	RM0	O16-C13	2.05	1.40	1.36

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	604	RM0	C12-N5-C1	3.21	122.03	118.12
2	A	601	NAG	C1-O5-C5	2.86	116.02	112.19
3	A	604	RM0	C15-C14-C13	-2.61	117.89	120.50
3	A	604	RM0	C6-C5-N4	2.36	113.70	110.12
3	A	604	RM0	C2-C3-N4	2.27	113.57	110.12

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	604	RM0	C12-C17-N18-O19
2	A	603	NAG	O5-C5-C6-O6
2	A	603	NAG	C4-C5-C6-O6
2	A	602	NAG	C8-C7-N2-C2
2	A	602	NAG	O7-C7-N2-C2
3	A	604	RM0	C9-C10-C11-C1
4	A	607	1PE	OH4-C13-C23-OH3
2	A	602	NAG	C4-C5-C6-O6
2	A	602	NAG	O5-C5-C6-O6
4	A	606	1PE	OH5-C14-C24-OH4
4	A	606	1PE	OH2-C12-C22-OH3
4	A	606	1PE	OH4-C13-C23-OH3
4	A	606	1PE	C23-C13-OH4-C24
4	A	606	1PE	C13-C23-OH3-C22
4	A	606	1PE	C14-C24-OH4-C13
4	A	606	1PE	C12-C22-OH3-C23
4	A	605	1PE	C23-C13-OH4-C24
3	A	604	RM0	C11-C10-C9-C8

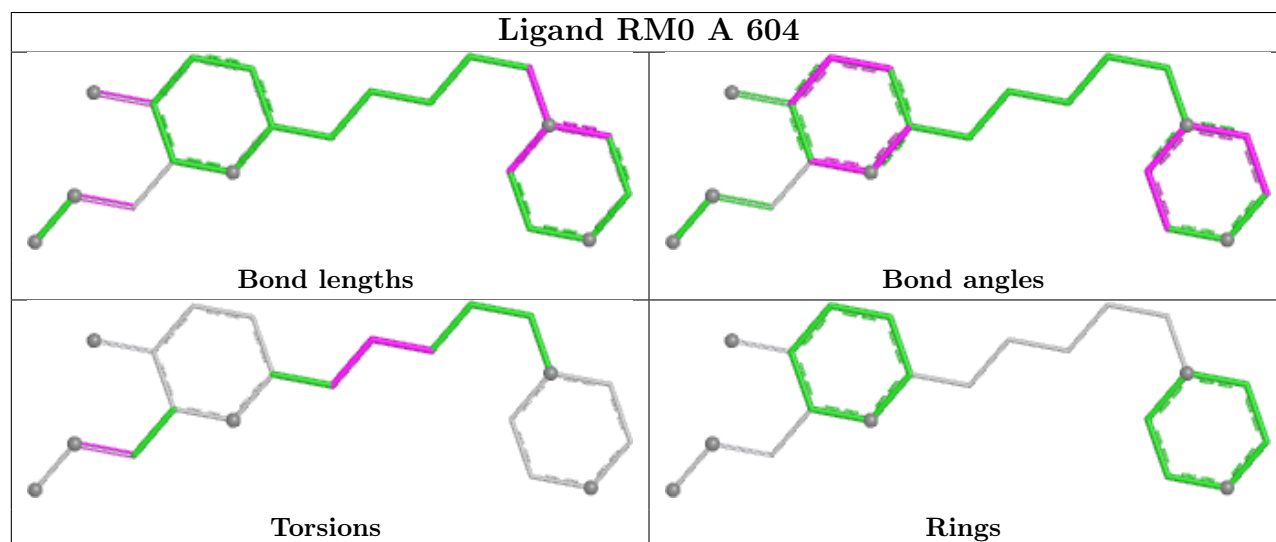
There are no ring outliers.

5 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	604	RM0	2	0
4	A	605	1PE	1	0
2	A	603	NAG	1	0
4	A	607	1PE	3	0
4	A	606	1PE	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 [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	532/572 (93%)	-0.41	3 (0%) 85 84	20, 31, 47, 74	6 (1%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	486	HIS	4.1
1	A	485	PRO	2.8
1	A	535	THR	2.6

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.

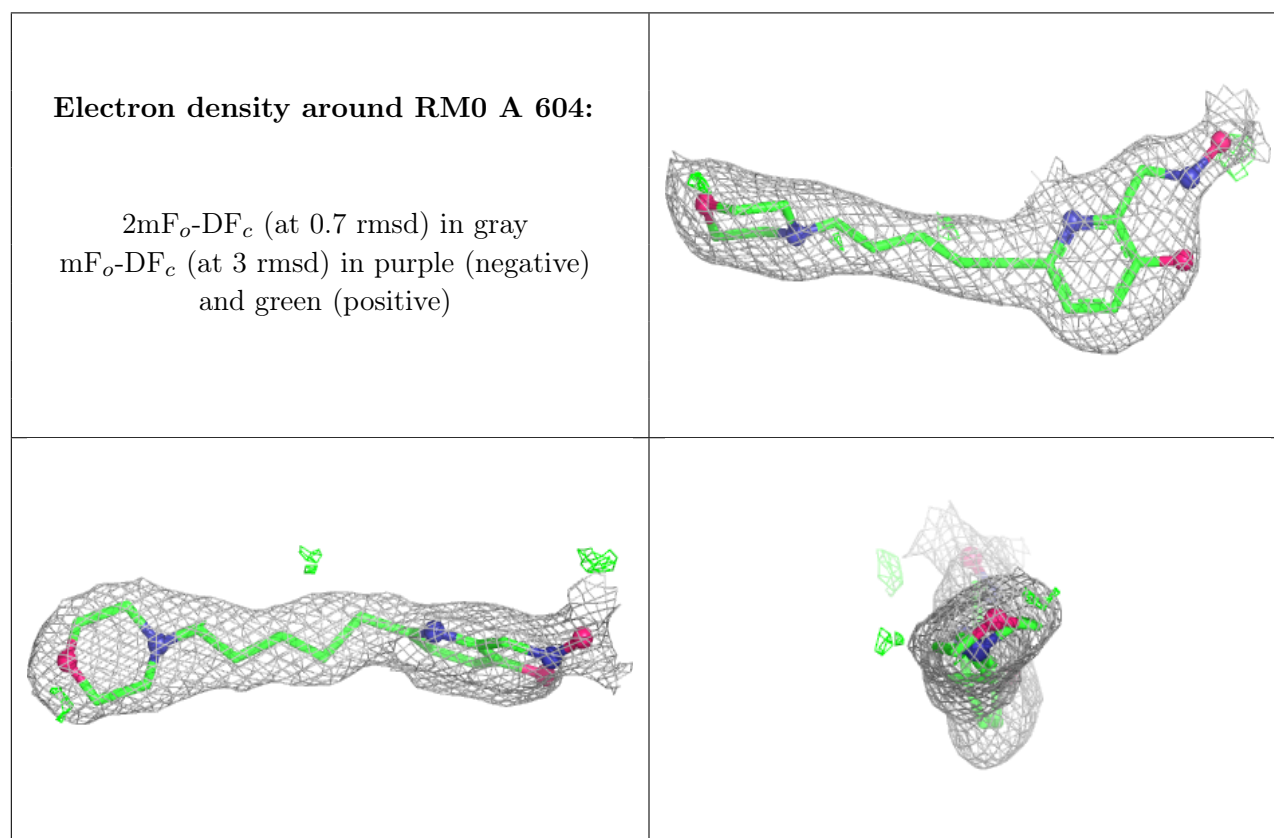
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	NAG	A	603	14/15	0.68	0.16	60,71,85,87	0
2	NAG	A	602	14/15	0.70	0.15	55,63,70,80	0
4	1PE	A	606	10/16	0.83	0.15	50,53,57,60	0
2	NAG	A	601	14/15	0.86	0.11	35,39,49,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	1PE	A	607	7/16	0.90	0.17	37,45,47,53	0
3	RM0	A	604	21/21	0.91	0.12	27,32,40,42	21
4	1PE	A	605	10/16	0.94	0.10	31,34,37,39	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.