



Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 09:42 pm BST

PDB ID : 6GXQ
Title : Crystal structure of T. brucei PDE-B1 catalytic domain with inhibitor NPD-1335
Authors : Singh, A.K.; Brown, D.G.
Deposited on : 2018-06-27
Resolution : 1.96 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

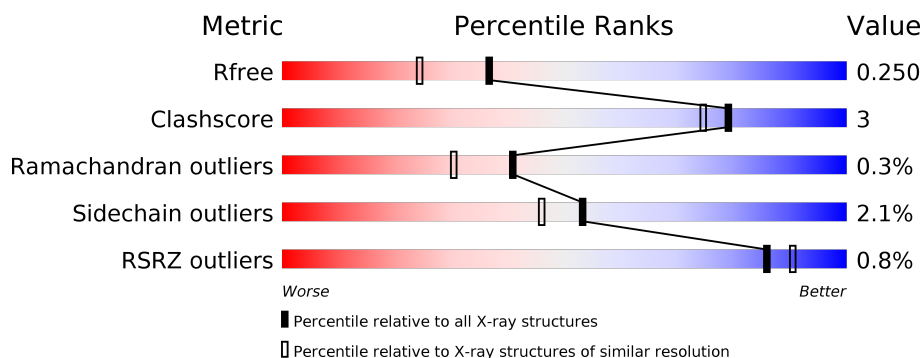
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.96 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}	130704	2580 (1.96-1.96)
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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 on 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	360	
1	B	360	

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
6	GOL	A	1007	-	-	X	-

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 5769 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 Phosphodiesterase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	333	Total	C	N	O	S	0	0	0
			2636	1673	445	500	18			
1	B	332	Total	C	N	O	S	0	0	0
			2624	1667	441	498	18			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	559	GLY	-	expression tag	UNP Q8WQX9
A	560	SER	-	expression tag	UNP Q8WQX9
A	561	HIS	-	expression tag	UNP Q8WQX9
A	562	MET	-	expression tag	UNP Q8WQX9
A	563	ALA	-	expression tag	UNP Q8WQX9
A	564	SER	-	expression tag	UNP Q8WQX9
B	559	GLY	-	expression tag	UNP Q8WQX9
B	560	SER	-	expression tag	UNP Q8WQX9
B	561	HIS	-	expression tag	UNP Q8WQX9
B	562	MET	-	expression tag	UNP Q8WQX9
B	563	ALA	-	expression tag	UNP Q8WQX9
B	564	SER	-	expression tag	UNP Q8WQX9

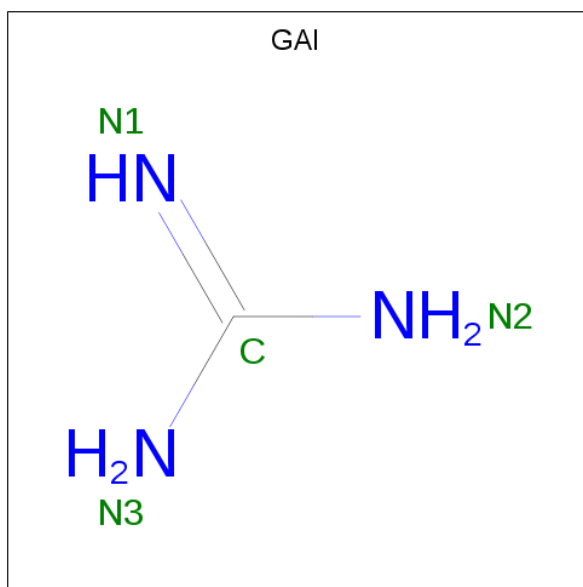
- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Mg	0	0
			1	1		
2	A	1	Total	Mg	0	0
			1	1		

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

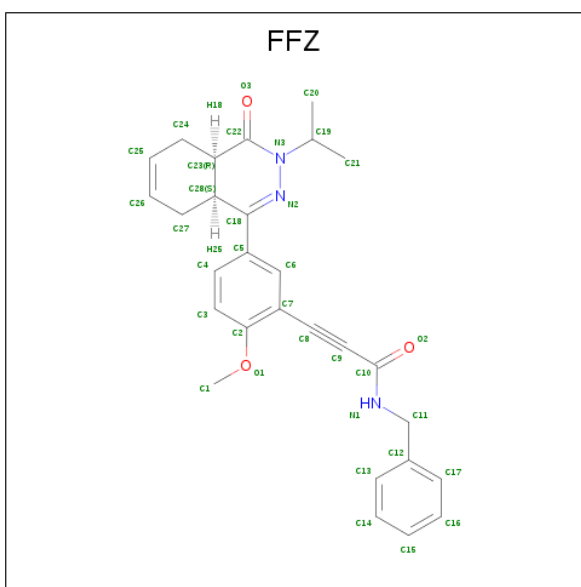
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	Zn	0	0
			1	1		
3	A	1	Total	Zn	0	0
			1	1		

- Molecule 4 is GUANIDINE (three-letter code: GAI) (formula: CH_5N_3).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	N	0	0
			4	1	3		
4	A	1	Total	C	N	0	0
			4	1	3		
4	A	1	Total	C	N	0	0
			4	1	3		
4	B	1	Total	C	N	0	0
			4	1	3		
4	B	1	Total	C	N	0	0
			4	1	3		

- Molecule 5 is 3-[5-[(4aR,8aS)-4-OXIDANYLIDENE-3-PROPAN-2-YL-4a,5,8,8a-TETRAHYDROPHthalazin-1-yl]-2-Methoxy-phenyl]-N-(phenylmethyl)prop-2-ynamide (three-letter code: FFZ) (formula: $\text{C}_{28}\text{H}_{29}\text{N}_3\text{O}_3$) (labeled as "Ligand of Interest" by author).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			34	28	3	3		

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

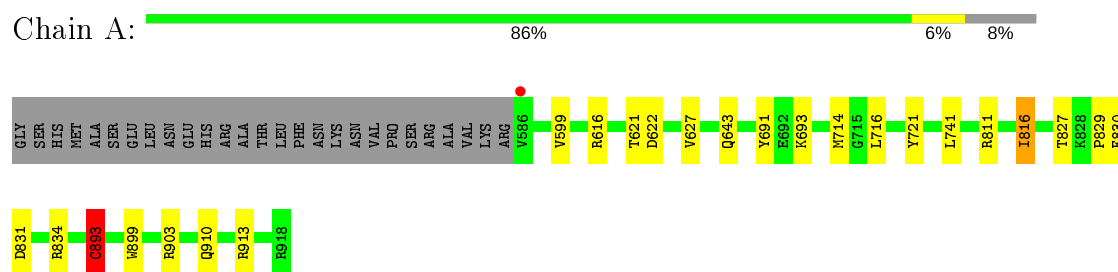
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	244	Total 244	O 244	0	0
7	B	189	Total 189	O 189	0	0

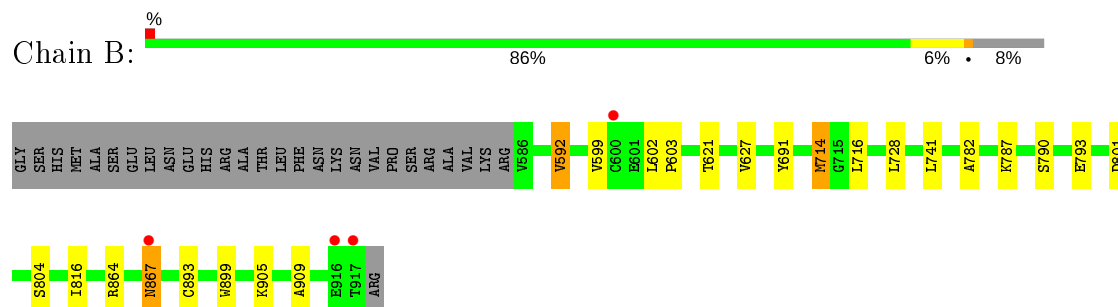
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Phosphodiesterase



• Molecule 1: Phosphodiesterase



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	114.88Å 114.42Å 68.23Å 90.00° 108.36° 90.00°	Depositor
Resolution (Å)	57.28 – 1.96 57.21 – 1.96	Depositor EDS
% Data completeness (in resolution range)	97.0 (57.28-1.96) 97.0 (57.21-1.96)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 1.95Å)	Xtriage
Refinement program	REFMAC 5.8.0222	Depositor
R, R_{free}	0.200 , 0.244 0.207 , 0.250	Depositor DCC
R_{free} test set	2895 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	30.1	Xtriage
Anisotropy	0.658	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 39.8	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	0.96	EDS
Total number of atoms	5769	wwPDB-VP
Average B, all atoms (Å ²)	41.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.85% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, GOL, MG, FFZ, GAI

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	0.53	0/2687	0.63	1/3634 (0.0%)
1	B	0.50	0/2675	0.62	0/3620
All	All	0.52	0/5362	0.62	1/7254 (0.0%)

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

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	893	CYS	N-CA-CB	-5.15	101.33	110.60

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	811	ARG	Sidechain
1	A	834	ARG	Sidechain

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	2636	0	2598	16	0
1	B	2624	0	2585	15	1
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	12	0	13	0	0
4	B	8	0	8	0	0
5	A	34	0	0	0	0
6	A	6	0	8	7	0
6	B	12	0	16	0	0
7	A	244	0	0	2	0
7	B	189	0	0	2	0
All	All	5769	0	5228	30	1

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 (30) 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:B:909:ALA:HB3	7:B:1156:HOH:O	1.86	0.75
6:A:1007:GOL:H2	1:B:864:ARG:CD	2.20	0.71
1:B:621:THR:HG21	1:B:627:VAL:HG21	1.73	0.70
1:A:621:THR:HG21	1:A:627:VAL:HG21	1.74	0.70
1:B:801:ASP:OD2	1:B:804:SER:HB3	1.96	0.65
1:A:829:PRO:HB2	6:A:1007:GOL:H31	1.77	0.65
1:B:621:THR:HG21	1:B:627:VAL:CG2	2.28	0.64
1:B:592:VAL:HG12	7:B:1243:HOH:O	2.01	0.60
1:A:621:THR:HG21	1:A:627:VAL:CG2	2.32	0.59
1:A:913:ARG:NH2	7:A:1102:HOH:O	2.35	0.58
1:A:643:GLN:HG3	7:A:1165:HOH:O	2.03	0.57
1:A:831:ASP:HB3	6:A:1007:GOL:H32	1.88	0.55
1:B:782:ALA:HA	1:B:787:LYS:HE2	1.89	0.54
1:B:716:LEU:O	1:B:741:LEU:HD11	2.11	0.50
1:A:716:LEU:O	1:A:741:LEU:HD11	2.11	0.50
6:A:1007:GOL:H2	1:B:864:ARG:HD3	1.95	0.48
1:A:714:MET:SD	1:A:721:TYR:OH	2.69	0.47
1:A:831:ASP:H	6:A:1007:GOL:C3	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:816:ILE:HD13	1:A:816:ILE:HA	1.84	0.45
1:A:829:PRO:HB2	6:A:1007:GOL:H12	2.00	0.44
1:B:602:LEU:N	1:B:603:PRO:HD3	2.33	0.44
1:A:693:LYS:HE3	1:A:893:CYS:SG	2.57	0.44
1:A:616:ARG:NH1	1:B:867:ASN:OD1	2.50	0.43
1:B:714:MET:HE2	1:B:714:MET:HB2	1.76	0.42
1:B:691:TYR:C	1:B:691:TYR:CD1	2.92	0.42
1:A:691:TYR:CD1	1:A:691:TYR:C	2.92	0.42
6:A:1007:GOL:H2	1:B:864:ARG:HD2	1.99	0.42
1:A:827:THR:O	1:A:903:ARG:HG2	2.20	0.41
1:A:830:PHE:CD1	1:A:910:GLN:HG2	2.55	0.41
1:B:801:ASP:OD2	1:B:804:SER:CB	2.67	0.41

All (1) 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)
1:B:790:SER:OG	1:B:793:GLU:OE1[2_858]	1.94	0.26

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	331/360 (92%)	323 (98%)	7 (2%)	1 (0%)	41	30
1	B	330/360 (92%)	322 (98%)	7 (2%)	1 (0%)	41	30
All	All	661/720 (92%)	645 (98%)	14 (2%)	2 (0%)	41	30

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	893	CYS

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Mol	Chain	Res	Type
1	A	893	CYS

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	288/311 (93%)	284 (99%)	4 (1%)	67	62
1	B	287/311 (92%)	279 (97%)	8 (3%)	43	33
All	All	575/622 (92%)	563 (98%)	12 (2%)	53	46

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	599	VAL
1	A	622	ASP
1	A	816	ILE
1	A	899	TRP
1	B	592	VAL
1	B	599	VAL
1	B	714	MET
1	B	728	LEU
1	B	816	ILE
1	B	867	ASN
1	B	899	TRP
1	B	905	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 13 ligands modelled in this entry, 4 are monoatomic - leaving 9 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$
4	GAI	B	1001	-	3,3,3	1.62	0	3,3,3	0.56	0
4	GAI	B	1005	-	3,3,3	1.68	1 (33%)	3,3,3	1.35	1 (33%)
6	GOL	B	1004	-	5,5,5	0.42	0	5,5,5	0.66	0
4	GAI	A	1004	-	3,3,3	3.42	2 (66%)	3,3,3	1.01	0
4	GAI	A	1003	-	3,3,3	1.82	1 (33%)	3,3,3	0.92	0
6	GOL	B	1006	-	5,5,5	0.71	0	5,5,5	1.08	1 (20%)
5	FFZ	A	1005	-	35,37,37	0.73	1 (2%)	39,51,51	0.77	1 (2%)
6	GOL	A	1007	-	5,5,5	0.76	0	5,5,5	1.27	0
4	GAI	A	1006	-	3,3,3	3.31	1 (33%)	3,3,3	1.10	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
6	GOL	B	1004	-	-	4/4/4/4	-
6	GOL	B	1006	-	-	2/4/4/4	-
5	FFZ	A	1005	-	-	4/17/47/47	0/4/4/4
6	GOL	A	1007	-	-	2/4/4/4	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1004	GAI	C-N3	-5.24	1.26	1.36
4	A	1006	GAI	C-N3	-5.20	1.26	1.36
5	A	1005	FFZ	C9-C10	-3.33	1.42	1.45
4	A	1004	GAI	C-N1	2.70	1.36	1.30
4	A	1003	GAI	C-N1	-2.11	1.26	1.30
4	B	1005	GAI	C-N1	-2.11	1.26	1.30

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	1005	FFZ	C4-C5-C18	3.09	124.41	120.75
6	B	1006	GOL	O2-C2-C3	2.13	118.52	109.12
4	B	1005	GAI	N3-C-N2	2.01	120.91	116.13

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	1005	FFZ	C9-C10-N1-C11
6	B	1004	GOL	C1-C2-C3-O3
6	B	1004	GOL	O2-C2-C3-O3
5	A	1005	FFZ	O2-C10-N1-C11
6	A	1007	GOL	O2-C2-C3-O3
6	B	1004	GOL	O1-C1-C2-C3
6	A	1007	GOL	C1-C2-C3-O3
6	B	1006	GOL	O2-C2-C3-O3
5	A	1005	FFZ	C2-C7-C8-C9
5	A	1005	FFZ	C6-C7-C8-C9
6	B	1006	GOL	O1-C1-C2-O2
6	B	1004	GOL	O1-C1-C2-O2

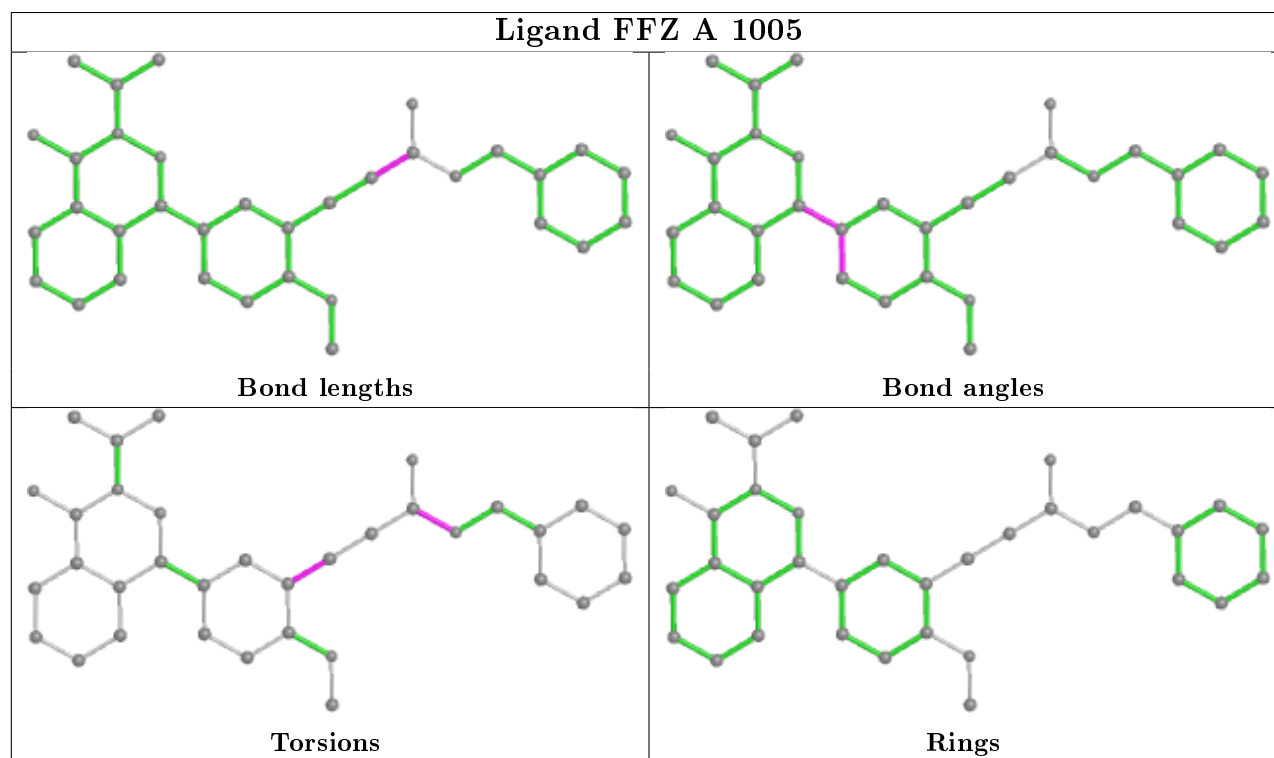
There are no ring outliers.

1 monomer is involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	1007	GOL	7	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	333/360 (92%)	-0.19	1 (0%) 94 96	24, 35, 62, 88	0
1	B	332/360 (92%)	0.03	4 (1%) 79 84	24, 40, 72, 99	0
All	All	665/720 (92%)	-0.08	5 (0%) 86 90	24, 37, 67, 99	0

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	586	VAL	3.8
1	B	867	ASN	2.5
1	B	600	CYS	2.2
1	B	917	THR	2.2
1	B	916	GLU	2.0

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](#)

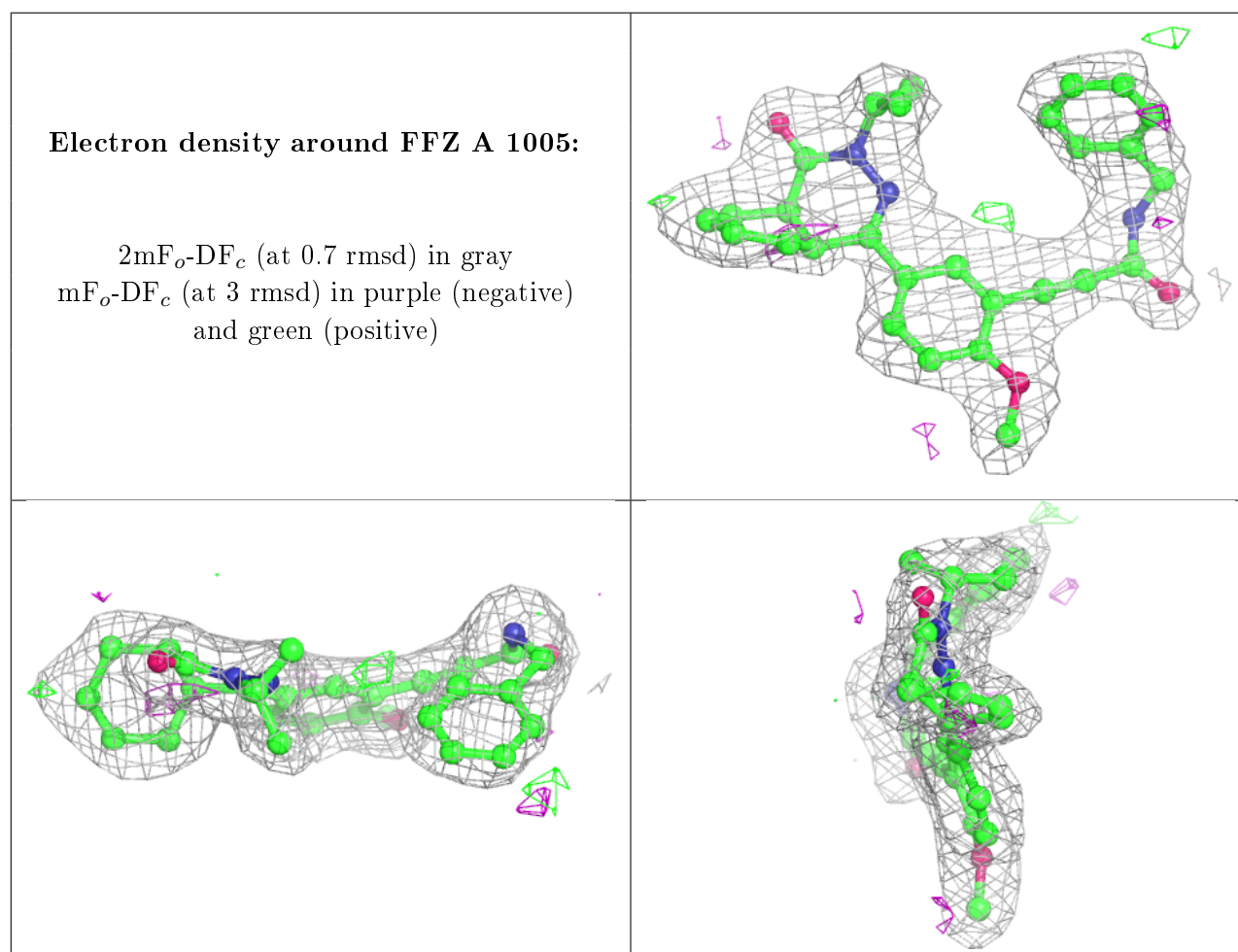
There are no carbohydrates in this entry.

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(\AA^2)	Q<0.9
6	GOL	A	1007	6/6	0.69	0.32	57,68,69,69	0
5	FFZ	A	1005	34/34	0.84	0.15	39,55,61,62	0
4	GAI	B	1001	4/4	0.85	0.11	58,59,64,65	0
6	GOL	B	1006	6/6	0.87	0.14	44,48,51,54	0
4	GAI	A	1006	4/4	0.88	0.10	62,63,65,68	0
4	GAI	A	1003	4/4	0.89	0.10	54,58,61,61	0
4	GAI	B	1005	4/4	0.89	0.14	53,55,55,55	0
6	GOL	B	1004	6/6	0.90	0.13	49,65,66,68	0
4	GAI	A	1004	4/4	0.97	0.07	32,34,36,36	0
2	MG	B	1002	1/1	0.97	0.07	29,29,29,29	0
2	MG	A	1001	1/1	0.98	0.06	27,27,27,27	0
3	ZN	A	1002	1/1	0.99	0.10	36,36,36,36	0
3	ZN	B	1003	1/1	0.99	0.09	36,36,36,36	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.