

Full wwPDB X-ray Structure Validation Report (i)

May 1, 2021 – 07:40 PM EDT

PDB ID : 5RGB

Title : Crystal Structure of Kemp Eliminase HG3.3b with bound transition state ana-

logue, 277K

Authors: Broom, A.; Rakotoharisoa, R.V.; Thompson, M.C.; Fraser, J.S.; Chica, R.A.

Deposited on : 2020-03-19

Resolution : 1.42 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 (i) symbol.

The following versions of software and data (see references (1)) 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 : 2.18

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)

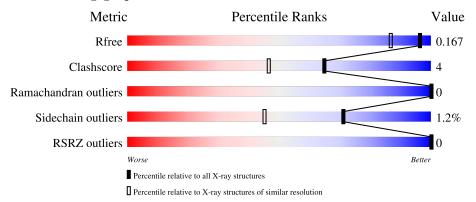
Validation Pipeline (wwPDB-VP) : 2.18

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 1.42 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	2579 (1.44-1.40)
Clashscore	141614	2696 (1.44-1.40)
Ramachandran outliers	138981	2632 (1.44-1.40)
Sidechain outliers	138945	2631 (1.44-1.40)
RSRZ outliers	127900	2528 (1.44-1.40)

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 <=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	318	86%	7% • 6%
1	В	318	88%	5% 6%



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 11211 atoms, of which 5298 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 Kemp Eliminase HG3.3b.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace		
1	Δ	299	Total	С	Н	N	О	S	0	84	0
1	Λ	299	5305	1683	2629	468	511	14	U		
1	B	299	Total	С	Н	N	О	S	0	87	0
1	D		5361	1698	2661	473	515	14		01	U

There are 64 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	MET	-	initiating methionine	UNP P23360
A	0	ALA	-	expression tag	UNP P23360
A	1	GLU	-	expression tag	UNP P23360
A	6	ILE	VAL	engineered mutation	UNP P23360
A	42	MET	GLN	engineered mutation	UNP P23360
A	44	TRP	THR	engineered mutation	UNP P23360
A	50	HIS	LYS	engineered mutation	UNP P23360
A	81	GLY	ARG	engineered mutation	UNP P23360
A	83	GLY	HIS	engineered mutation	UNP P23360
A	84	CYS	THR	engineered mutation	UNP P23360
A	89	ARG	SER	engineered mutation	UNP P23360
A	90	ASP	GLN	engineered mutation	UNP P23360
A	125	ASN	ALA	engineered mutation	UNP P23360
A	130	GLY	ASN	engineered mutation	UNP P23360
A	172	MET	ASN	engineered mutation	UNP P23360
A	234	SER	ALA	engineered mutation	UNP P23360
A	236	LEU	THR	engineered mutation	UNP P23360
A	237	MET	GLU	engineered mutation	UNP P23360
A	267	PHE	TRP	engineered mutation	UNP P23360
A	304	GLY	-	expression tag	UNP P23360
A	305	SER	-	expression tag	UNP P23360
A	306	ILE	-	expression tag	UNP P23360
A	307	GLU	-	expression tag	UNP P23360
A	308	GLY	-	expression tag	UNP P23360
A	309	ARG	-	expression tag	UNP P23360

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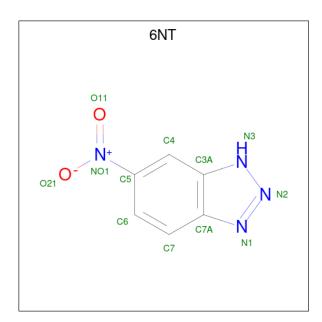


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Chain	Residue	Modelled Modelled	Actual	Comment	Reference
A	310	GLY	-	expression tag	UNP P23360
A	311	HIS	-	expression tag	UNP P23360
A	312	HIS	-	expression tag	UNP P23360
A	313	HIS	-	expression tag	UNP P23360
A	314	HIS	-	expression tag	UNP P23360
A	315	HIS	-	expression tag	UNP P23360
A	316	HIS	-	expression tag	UNP P23360
В	-1	MET	-	initiating methionine	UNP P23360
В	0	ALA	-	expression tag	UNP P23360
В	1	GLU	-	expression tag	UNP P23360
В	6	ILE	VAL	engineered mutation	UNP P23360
В	42	MET	GLN	engineered mutation	UNP P23360
В	44	TRP	THR	engineered mutation	UNP P23360
В	50	HIS	LYS	engineered mutation	UNP P23360
В	81	GLY	ARG	engineered mutation	UNP P23360
В	83	GLY	HIS	engineered mutation	UNP P23360
В	84	CYS	THR	engineered mutation	UNP P23360
В	89	ARG	SER	engineered mutation	UNP P23360
В	90	ASP	GLN	engineered mutation	UNP P23360
В	125	ASN	ALA	engineered mutation	UNP P23360
В	130	GLY	ASN	engineered mutation	UNP P23360
В	172	MET	ASN	engineered mutation	UNP P23360
В	234	SER	ALA	engineered mutation	UNP P23360
В	236	LEU	THR	engineered mutation	UNP P23360
В	237	MET	GLU	engineered mutation	UNP P23360
В	267	PHE	TRP	engineered mutation	UNP P23360
В	304	GLY	-	expression tag	UNP P23360
В	305	SER	-	expression tag	UNP P23360
В	306	ILE	-	expression tag	UNP P23360
В	307	GLU	-	expression tag	UNP P23360
В	308	GLY	-	expression tag	UNP P23360
В	309	ARG	-	expression tag	UNP P23360
В	310	GLY	-	expression tag	UNP P23360
В	311	HIS	-	expression tag	UNP P23360
В	312	HIS	-	expression tag	UNP P23360
В	313	HIS	-	expression tag	UNP P23360
В	314	HIS	-	expression tag	UNP P23360
В	315	HIS	-	expression tag	UNP P23360
В	316	HIS	-	expression tag	UNP P23360

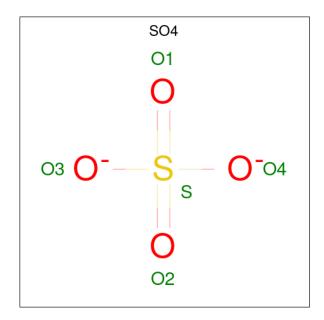
• Molecule 2 is 6-NITROBENZOTRIAZOLE (three-letter code: 6NT) (formula: $C_6H_4N_4O_2$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
2	Λ	1	Total	С	Н	N	О	0	0	
	2 A	1	16	6	4	4	2	0		
9	D	1	Total	С	Н	N	О	0	0	
2	Б	1	16	6	4	4	2		U	

 \bullet Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total O S 5 4 1	0	0
3	В	1	Total O S 5 4 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	1	Total O S 5 4 1	0	0

• Molecule 4 is water.

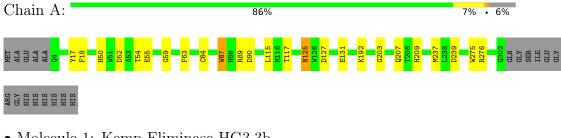
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	247	Total O 254 254	0	10
4	В	240	Total O 244 244	0	8



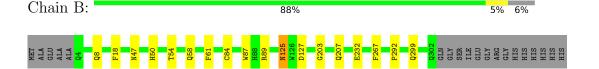
3 Residue-property plots (i)

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: Kemp Eliminase HG3.3b



• Molecule 1: Kemp Eliminase HG3.3b





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	76.24Å 79.92Å 98.71Å	Domositon
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.16 - 1.42	Depositor
Resolution (A)	48.16 - 1.42	EDS
% Data completeness	99.7 (48.16-1.42)	Depositor
(in resolution range)	99.7 (48.16-1.42)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.49 (at 1.42Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
D.D.	0.136 , 0.167	Depositor
R, R_{free}	0.136 , 0.167	DCC
R_{free} test set	2010 reflections (1.77%)	wwPDB-VP
Wilson B-factor (Å ²)	16.8	Xtriage
Anisotropy	0.353	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.39 , 45.0	EDS
L-test for twinning ²	$< L >=0.51, < L^2>=0.34$	Xtriage
Estimated twinning fraction	0.008 for k,h,-l	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	11211	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.88% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

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: 6NT, SO4

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		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.32	0/3023	0.59	0/4125	
1	В	0.32	0/3056	0.58	0/4171	
All	All	0.32	0/6079	0.58	0/8296	

There are no bond length outliers.

There are no bond angle outliers.

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	2676	2629	2322	29	0
1	В	2700	2661	2335	14	0
2	A	12	4	4	0	0
2	В	12	4	4	0	0
3	A	5	0	0	0	0
3	В	10	0	0	0	0
4	A	254	0	0	14	0
4	В	244	0	0	7	1
All	All	5913	5298	4665	44	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 4.



All (44) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	overlap (Å)
1:A:239:ASP:OD1	4:A:501[A]:HOH:O	1.63	1.13
1:A:276[A]:ARG:NH1	4:A:501[A]:HOH:O	1.89	1.03
1:B:207[B]:GLN:NE2	4:B:739[B]:HOH:O	1.91	1.03
1:A:17[B]:TYR:OH	4:A:502:HOH:O	1.76	1.01
1:A:276[B]:ARG:NH1	4:A:501[B]:HOH:O	1.95	0.99
1:A:125[B]:ASN:ND2	4:A:502:HOH:O	1.93	0.94
1:B:8[B]:GLN:OE1	4:B:501[B]:HOH:O	1.91	0.87
1:B:125[B]:ASN:ND2	4:B:502:HOH:O	2.02	0.80
1:A:117[B]:THR:HG22	4:A:638[B]:HOH:O	1.91	0.70
1:A:90[B]:ASP:HB2	4:A:503[B]:HOH:O	1.99	0.61
1:A:89[A]:ARG:NH2	4:A:507:HOH:O	2.35	0.59
1:A:52:ASP:OD1	1:A:90[B]:ASP:HB3	2.05	0.56
1:A:52:ASP:CG	1:A:90[B]:ASP:HB3	2.26	0.56
1:A:63:PHE:HE1	1:A:115[B]:LEU:HD23	1.72	0.55
1:A:50:HIS:HD2	1:A:84[B]:CYS:H	1.55	0.55
1:A:84[B]:CYS:SG	1:A:87[B]:TRP:HB2	2.48	0.54
1:B:89[B]:ARG:NH1	4:B:508:HOH:O	2.41	0.54
1:B:50:HIS:HD2	1:B:84[B]:CYS:H	1.56	0.53
1:A:89[A]:ARG:NE	1:A:131:GLU:OE1	2.40	0.53
1:B:299[A]:GLN:HG2	4:B:529:HOH:O	2.09	0.52
1:A:90[B]:ASP:O	4:A:503[B]:HOH:O	2.19	0.52
1:A:52:ASP:HB3	1:A:90[B]:ASP:O	2.12	0.49
1:A:275[B]:TRP:CE3	1:A:276[B]:ARG:HG2	2.48	0.49
1:A:84[A]:CYS:HA	1:A:127:ASP:O	2.14	0.47
1:A:50:HIS:CD2	1:A:84[B]:CYS:H	2.32	0.47
1:A:275[B]:TRP:CZ2	1:A:276[B]:ARG:HG3	2.51	0.46
1:B:54:THR:O	1:B:61:PHE:HA	2.15	0.46
1:A:275[B]:TRP:CE2	1:A:276[B]:ARG:HG3	2.52	0.45
1:A:55[B]:GLU:HG3	1:A:59[B]:GLY:O	2.16	0.45
1:A:209:HIS:HB3	4:A:501[A]:HOH:O	2.16	0.44
1:B:50:HIS:CD2	1:B:84[B]:CYS:H	2.35	0.44
1:A:209:HIS:CB	4:A:501[A]:HOH:O	2.67	0.43
1:A:209:HIS:HA	4:A:501[A]:HOH:O	2.18	0.43
1:B:203:GLY:HA2	1:B:232:GLU:O	2.19	0.42
1:B:58[B]:GLN:OE1	4:B:504:HOH:O	2.16	0.42
1:A:207[B]:GLN:HG3	1:A:237:MET:SD	2.60	0.41
1:A:192[B]:LYS:NZ	4:A:504:HOH:O	2.19	0.41
1:B:47:ASN:HB3	4:B:653:HOH:O	2.19	0.41
1:B:84[A]:CYS:HA	1:B:127:ASP:O	2.22	0.40
1:B:267[B]:PHE:O	1:B:267[B]:PHE:CD1	2.75	0.40



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		$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	$egin{aligned} ext{Clash} \ ext{overlap } (ext{Å}) \end{aligned}$
4:B:598:HOH:O	4:B:635:HOH:O[2_455]	1.78	0.42

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	381/318 (120%)	373 (98%)	8 (2%)	0	100	100	
1	В	385/318 (121%)	368 (96%)	17 (4%)	0	100	100	
All	All	766/636 (120%)	741 (97%)	25 (3%)	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	otameric Outliers	
1	A	316/256 (123%)	310 (98%)	6 (2%)	57 24
1	В	320/256 (125%)	314 (98%)	6 (2%)	57 24
All	All	636/512 (124%)	624 (98%)	12 (2%)	71 24

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



Mol	Chain	Res	Type
1	A	18[A]	PHE
1	A	18[B]	PHE
1	A	87[A]	TRP
1	A	87[B]	TRP
1	A	125[A]	ASN
1	A	125[B]	ASN
1	В	18[A]	PHE
1	В	18[B]	PHE
1	В	87[A]	TRP
1	В	87[B]	TRP
1	В	125[A]	ASN
1	В	125[B]	ASN

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

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

5 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).



Mal	Mol Type	Chain	Res	Link	Bond lengths				Bond angles		
MIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	6NT	В	401	-	8,13,13	1.40	2 (25%)	10,18,18	1.24	2 (20%)	
3	SO4	В	402	-	4,4,4	0.14	0	6,6,6	0.07	0	
3	SO4	В	403	-	4,4,4	0.13	0	6,6,6	0.13	0	
2	6NT	A	401	-	8,13,13	1.26	0	10,18,18	1.05	0	
3	SO4	A	402	-	4,4,4	0.14	0	6,6,6	0.05	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	6NT	В	401	-	-	0/2/4/4	0/2/2/2
2	6NT	A	401	-	-	0/2/4/4	0/2/2/2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\mathring{\mathrm{A}})$	Ideal(Å)
2	В	401	6NT	O11-NO1	-2.53	1.18	1.22
2	В	401	6NT	C4-C3A	-2.06	1.38	1.41

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\mathrm{Ideal}(^{o})$
2	В	401	6NT	O11-NO1-C5	2.44	122.25	118.80
2	В	401	6NT	C6-C7-C7A	-2.08	118.22	120.84

There are no chirality outliers.

There are no torsion outliers.

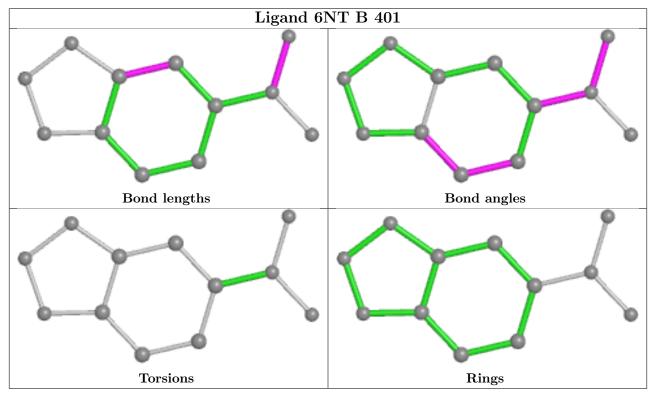
There are no ring outliers.

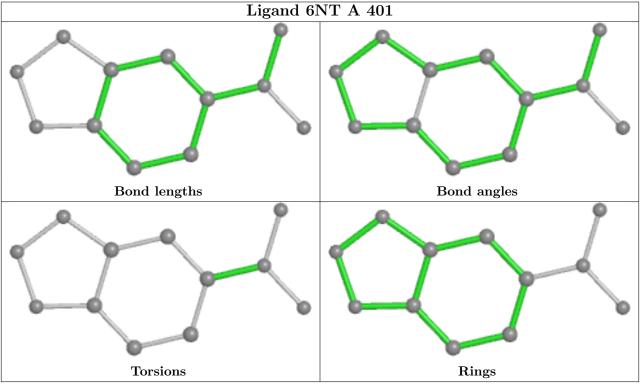
No monomer is involved in short contacts.

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 then 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, 95^{th} 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	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Z>2	$OWAB(A^2)$	Q<0.9		
1	A	299/318~(94%)	-0.42	0	100	100	13, 18, 30, 40	1 (0%)
1	В	$299/318 \ (94\%)$	-0.38	0	100	100	13, 19, 33, 49	1 (0%)
All	All	598/636 (94%)	-0.40	0	100	100	13, 18, 32, 49	2 (0%)

There are no RSRZ outliers to report.

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 monosaccharides in this entry.

6.4 Ligands (i)

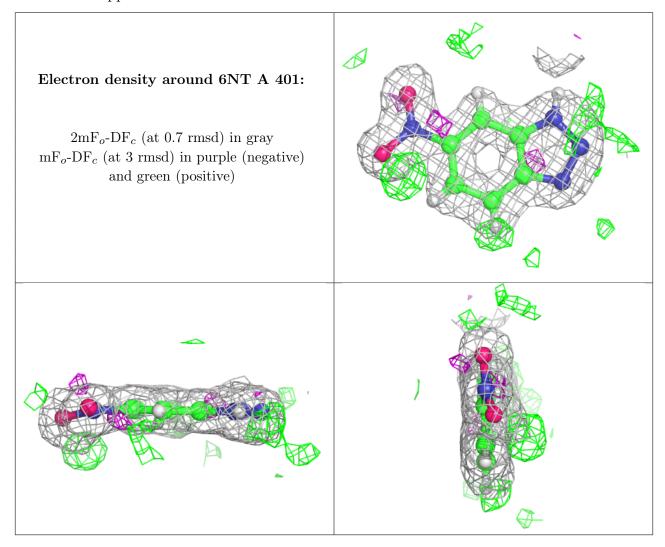
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	SO4	В	403	5/5	0.75	0.16	108,109,110,110	0
3	SO4	В	402	5/5	0.83	0.17	96,100,104,109	0
3	SO4	A	402	5/5	0.89	0.20	101,103,105,105	0
2	6NT	A	401	12/12	0.92	0.10	16,20,22,25	16
2	6NT	В	401	12/12	0.93	0.12	15,19,23,27	16

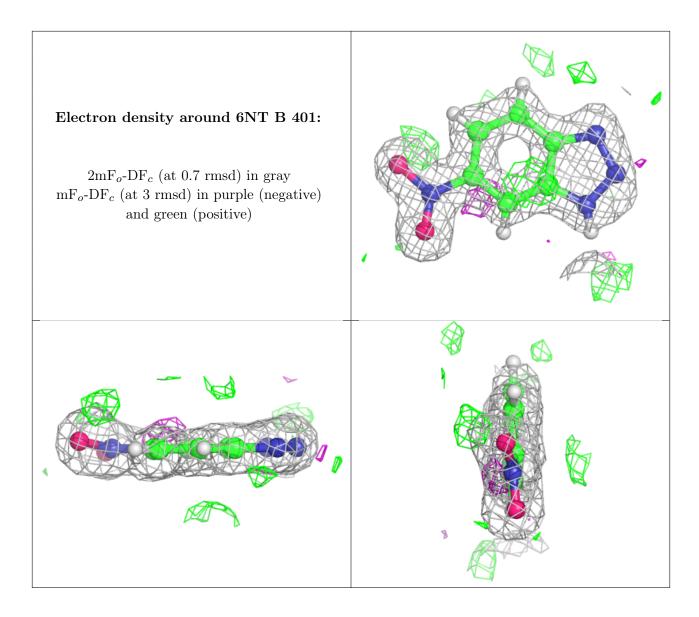
The following is a graphical depiction of the model fit to experimental electron density of all



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.

