

wwPDB X-ray Structure Validation Summary Report (i)

Nov 13, 2023 – 08:02 PM JST

PDB ID	:	5XWW
Title	:	Substrate-bound Structure of $G355T/Q364H$ mutant of a Ketore ductase from
		amphotericin Polyketide Synthases
Authors	:	Liu, C.; Zheng, J.
Deposited on		
Resolution	:	1.96 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

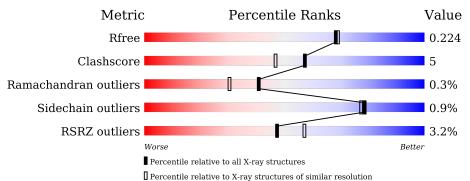
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

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	$\begin{array}{l} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
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 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	А	496	88%	8%	•••
1	В	496	87%	9%	·



5XWW

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 7196 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.

Mol	Chain	Residues		Ate	oms			ZeroOcc	AltConf	Trace
1	Λ	477	Total	С	Ν	0	S	0	0	0
	A	477	3473	2168	637	659	9	0	0	0
1	В	477	Total	С	Ν	0	S	0	0	0
	D	411	3473	2168	637	659	9	0	0	0

• Molecule 1 is a protein called AmphB.

There a	are 46	discrepancie	${ m s}$ between	the	mode	elled	and	referenc	e sequences	:

A-20MET-expression tagA-19GLY-expression tagA-18SER-expression tagA-17SER-expression tagA-16HIS-expression tagA-15HIS-expression tagA-13HIS-expression tagA-13HIS-expression tagA-11HIS-expression tagA-10SER-expression tagA-70SER-expression tagA-7LEU-expression tagA-7LEU-expression tagA-6VAL-expression tagA-5PRO-expression tag	UNP Q93NW7 UNP Q93NW7 UNP Q93NW7 UNP Q93NW7 UNP Q93NW7 UNP Q93NW7 UNP Q93NW7
A-18SER-expression tagA-17SER-expression tagA-16HIS-expression tagA-15HIS-expression tagA-13HIS-expression tagA-13HIS-expression tagA-11HIS-expression tagA-12HIS-expression tagA-10SER-expression tagA-10SER-expression tagA-9SER-expression tagA-6VAL-expression tag	UNP Q93NW7 UNP Q93NW7 UNP Q93NW7
A-17SER-expression tagA-16HIS-expression tagA-15HIS-expression tagA-14HIS-expression tagA-13HIS-expression tagA-11HIS-expression tagA-10SER-expression tagA-10SER-expression tagA-6VAL-expression tag	UNP Q93NW7 UNP Q93NW7
A-16HIS-expression tagA-15HIS-expression tagA-14HIS-expression tagA-13HIS-expression tagA-12HIS-expression tagA-11HIS-expression tagA-10SER-expression tagA-10SER-expression tagA-6VAL-expression tag	UNP Q93NW7
A-15HIS-expression tagA-14HIS-expression tagA-13HIS-expression tagA-12HIS-expression tagA-11HIS-expression tagA-10SER-expression tagA-9SER-expression tagA-9SER-expression tagA-6VAL-expression tag	
A-14HIS-expression tagA-13HIS-expression tagA-12HIS-expression tagA-11HIS-expression tagA-10SER-expression tagA-9SER-expression tagA-9SER-expression tagA-6VAL-expression tag	UNP Q93NW7
A-13HIS-expression tagA-12HIS-expression tagA-11HIS-expression tagA-10SER-expression tagA-9SER-expression tagA-9SER-expression tagA-9SER-expression tagA-6VAL-expression tag	-
A-12HIS-expression tagA-11HIS-expression tagA-10SER-expression tagA-9SER-expression tagA-9SER-expression tagA-7LEU-expression tagA-6VAL-expression tag	UNP Q93NW7
A-11HIS-expression tagA-10SER-expression tagA-9SER-expression tagA-8GLY-expression tagA-7LEU-expression tagA-6VAL-expression tag	UNP Q93NW7
A-10SER-expression tagA-9SER-expression tagA-8GLY-expression tagA-7LEU-expression tagA-6VAL-expression tag	UNP Q93NW7
A-9SER-expression tagA-8GLY-expression tagA-7LEU-expression tagA-6VAL-expression tag	UNP Q93NW7
A-8GLY-expression tagA-7LEU-expression tagA-6VAL-expression tag	UNP Q93NW7
A-7LEU-expression tagA-6VAL-expression tag	UNP Q93NW7
A -6 VAL - expression tag	UNP Q93NW7
	UNP Q93NW7
A -5 PRO - expression tag	UNP Q93NW7
	UNP Q93NW7
A -4 ARG - expression tag	UNP Q93NW7
A -3 GLY - expression tag	UNP Q93NW7
A -2 SER - expression tag	UNP Q93NW7
A -1 HIS - expression tag	UNP Q93NW7
A 0 MET - expression tag	UNP Q93NW7
A 355 THR GLY engineered mutati	on UNP Q93NW7
A 364 HIS GLN engineered mutati	on UNP Q93NW7
B -20 MET - expression tag	UNP Q93NW7
B -19 GLY - expression tag	UNP Q93NW7

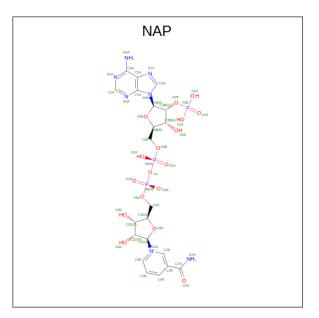
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Chain	Residue	Modelled	Actual	Comment	Reference
В	-18	SER	-	expression tag	UNP Q93NW7
В	-17	SER	-	expression tag	UNP Q93NW7
В	-16	HIS	-	expression tag	UNP Q93NW7
В	-15	HIS	-	expression tag	UNP Q93NW7
В	-14	HIS	-	expression tag	UNP Q93NW7
В	-13	HIS	-	expression tag	UNP Q93NW7
В	-12	HIS	-	expression tag	UNP Q93NW7
В	-11	HIS	-	expression tag	UNP Q93NW7
В	-10	SER	-	expression tag	UNP Q93NW7
В	-9	SER	-	expression tag	UNP Q93NW7
В	-8	GLY	-	expression tag	UNP Q93NW7
В	-7	LEU	-	expression tag	UNP Q93NW7
В	-6	VAL	-	expression tag	UNP Q93NW7
В	-5	PRO	-	expression tag	UNP Q93NW7
В	-4	ARG	-	expression tag	UNP Q93NW7
В	-3	GLY	-	expression tag	UNP Q93NW7
В	-2	SER	-	expression tag	UNP Q93NW7
В	-1	HIS	-	expression tag	UNP Q93NW7
В	0	MET	-	expression tag	UNP Q93NW7
В	355	THR	GLY	engineered mutation	UNP Q93NW7
В	364	HIS	GLN	engineered mutation	UNP Q93NW7

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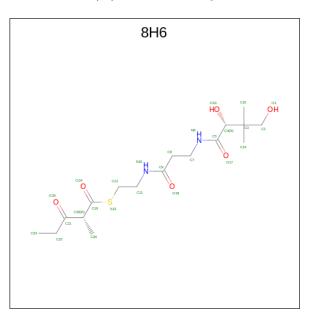
• Molecule 2 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: $C_{21}H_{28}N_7O_{17}P_3$).





Mol	Chain	Residues		Ate	oms			ZeroOcc	AltConf
0	٨	1	Total	С	Ν	Ο	Р	0	0
	A	1	48	21	7	17	3	0	0
0	р	1	Total	С	Ν	Ο	Р	0	0
	D	1	48	21	7	17	3	0	0

• Molecule 3 is S-[2-[3-[[(2R)-3,3-dimethyl-2,4-bis(oxidanyl)butanoyl]amino]propanoylamin o]ethyl] (2R)-2-methyl-3-oxidanylidene-pentanethioate (three-letter code: 8H6) (formula: $C_{17}H_{30}N_2O_6S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues		Ato	\mathbf{ms}			ZeroOcc	AltConf
3	Δ	1	Total	С	Ν	0	S	0	Ο
5	Л	1	26	17	2	6	1	0	0
2	р	1	Total	С	Ν	0	S	0	0
0	D	1	26	17	2	6	1	0	0

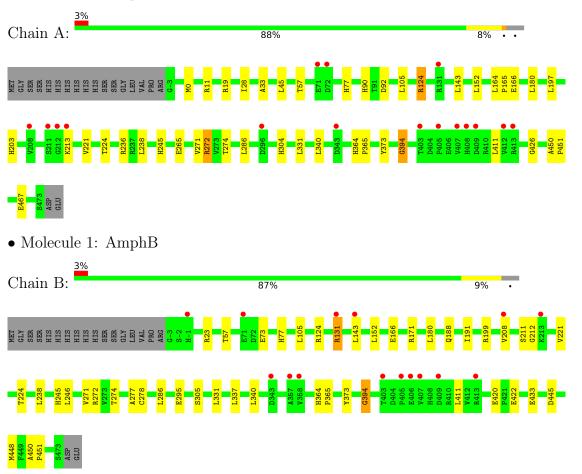
• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	48	Total O 48 48	0	0
4	В	54	$\begin{array}{cc} \text{Total} & \text{O} \\ 54 & 54 \end{array}$	0	0



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: AmphB



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	61.07Å 63.63 Å 71.59 Å	Depositor
a, b, c, α , β , γ	72.67° 67.21° 89.88°	Depositor
Resolution (Å)	50.00 - 1.96	Depositor
Resolution (A)	33.51 - 1.96	EDS
% Data completeness	94.2(50.00-1.96)	Depositor
(in resolution range)	94.2 (33.51 - 1.96)	EDS
R _{merge}	0.10	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.71 (at 1.97 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0151	Depositor
R, R_{free}	0.180 , 0.217	Depositor
$10, 10_{free}$	0.189 , 0.224	DCC
R_{free} test set	3200 reflections $(5.06%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	27.1	Xtriage
Anisotropy	0.073	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.38 , 37.8	EDS
L-test for twinning ²	$< L > = 0.49, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.115 for h,-k,h-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7196	wwPDB-VP
Average B, all atoms $(Å^2)$	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.90% of the height of the origin peak. No significant pseudotranslation is detected.

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.



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: NAP, $8\mathrm{H}6$

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 Chair		Bo	nd lengths	Bond angles		
MOI	Mol Chain RMSZ		# Z > 5	RMSZ	# Z > 5	
1	А	0.36 0/3544		0.49	0/4842	
1	В	0.39	$0.39 1/3544 \ (0.0\%)$		0/4842	
All	All	0.37	1/7088~(0.0%)	0.50	0/9684	

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	В	191	ILE	C-N	-5.56	1.21	1.34

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	А	3473	0	3431	30	0
1	В	3473	0	3429	34	1
2	А	48	0	25	1	0
2	В	48	0	25	1	0
3	А	26	0	0	4	0
3	В	26	0	0	6	0
4	А	48	0	0	0	0
4	В	54	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes	
All	All	7196	0	6910	69	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 5.

The worst 5 of 69 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:131:ARG:HH11	1:B:131:ARG:HG2	1.35	0.89
1:A:90:HIS:HD2	1:A:92:ASP:H	1.24	0.82
1:B:208:VAL:HG23	1:B:211:SER:OG	1.81	0.81
1:B:286:LEU:HD23	1:B:340:LEU:HD12	1.68	0.75
1:B:131:ARG:HG2	1:B:131:ARG:NH1	1.97	0.74

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:171:ARG:NH1	1:B:295:GLU:OE2[1_565]	1.52	0.68

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	А	475/496~(96%)	461 (97%)	12 (2%)	2~(0%)	34 22
1	В	475/496~(96%)	465~(98%)	9~(2%)	1 (0%)	47 38
All	All	950/992~(96%)	926 (98%)	21 (2%)	3(0%)	41 30

All (3) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
1	А	213	LYS
1	В	394	GLY
1	А	394	GLY

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	А	335/352~(95%)	332~(99%)	3(1%)	78 77
1	В	335/352~(95%)	332~(99%)	3 (1%)	78 77
All	All	670/704~(95%)	664 (99%)	6 (1%)	78 77

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	124	ARG
1	В	131	ARG
1	В	143	LEU
1	А	143	LEU
1	А	124	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 15 such sidechains are listed below:

Mol	Chain	Res	Type
1	А	380	HIS
1	В	336	HIS
1	А	423	HIS
1	В	380	HIS
1	В	241	GLN

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)

4 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	Turne	Chain	n Res Lin		Bo	ond leng	ths	B	ond ang	gles
10101	Type	Unam	nes	Link	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	8H6	В	502	-	22,25,25	1.78	4 (18%)	27,33,33	3.04	12 (44%)
3	8H6	А	502	-	22,25,25	1.65	4 (18%)	27,33,33	<mark>3.21</mark>	12 (44%)
2	NAP	В	501	-	45,52,52	1.42	4 (8%)	56,80,80	1.62	7 (12%)
2	NAP	А	501	-	45,52,52	1.41	4 (8%)	56,80,80	1.57	8 (14%)

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
3	8H6	В	502	-	-	21/36/36/36	-
3	8H6	А	502	-	-	19/36/36/36	-
2	NAP	В	501	-	-	5/31/67/67	0/5/5/5
2	NAP	А	501	-	-	6/31/67/67	0/5/5/5

The worst 5 of 16 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	А	501	NAP	C4N-C3N	6.67	1.50	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	В	501	NAP	C4N-C3N	6.56	1.50	1.39
3	В	502	8H6	C20-C19	-5.50	1.49	1.53
3	А	502	8H6	C20-C19	-4.57	1.49	1.53
3	В	502	8H6	C9-N10	-3.72	1.24	1.33

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The worst 5 of 39 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	В	502	8H6	C7-N6-C5	9.68	139.85	122.59
3	А	502	8H6	C7-N6-C5	9.18	138.96	122.59
2	А	501	NAP	C5N-C4N-C3N	-6.56	112.59	120.34
2	В	501	NAP	C5N-C4N-C3N	-6.06	113.17	120.34
3	А	502	8H6	O24-C19-S13	-5.35	116.60	123.80

There are no chirality outliers.

5 of 51 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	501	NAP	C5D-O5D-PN-O2N
2	В	501	NAP	C5D-O5D-PN-O1N
2	В	501	NAP	C5D-O5D-PN-O2N
3	А	502	8H6	C4-C5-N6-C7
3	А	502	8H6	C15-C3-C4-C5

There are no ring outliers.

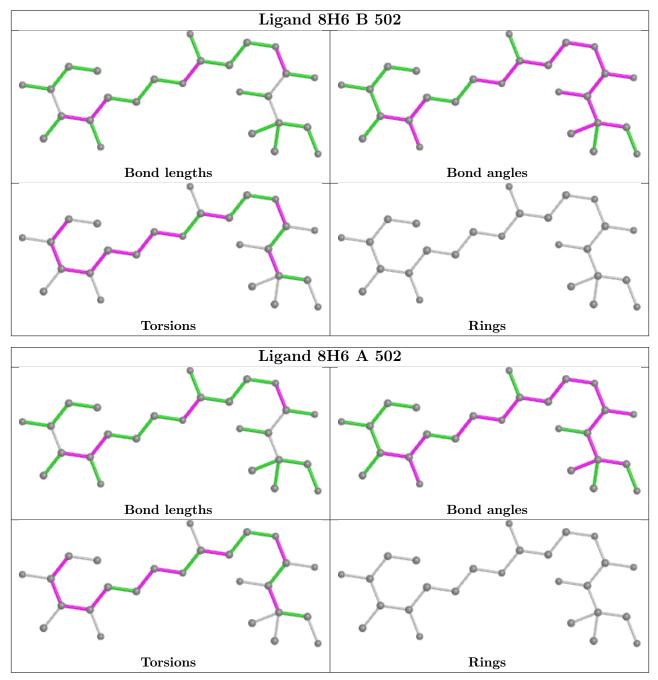
4 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	502	8H6	6	0
3	А	502	8H6	4	0
2	В	501	NAP	1	0
2	А	501	NAP	1	0

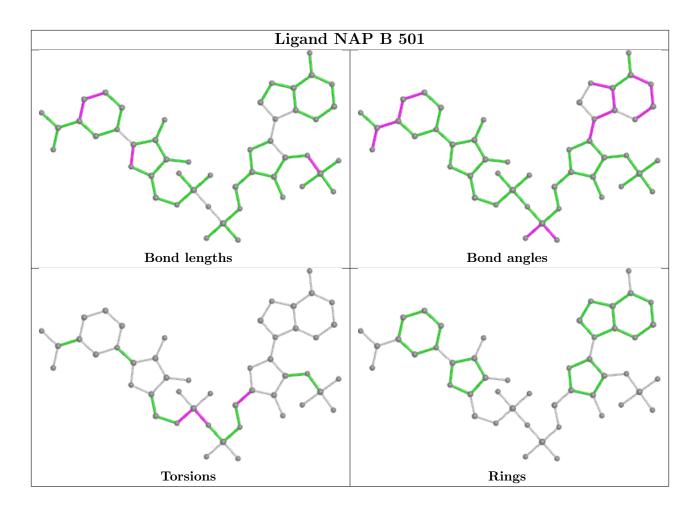
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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



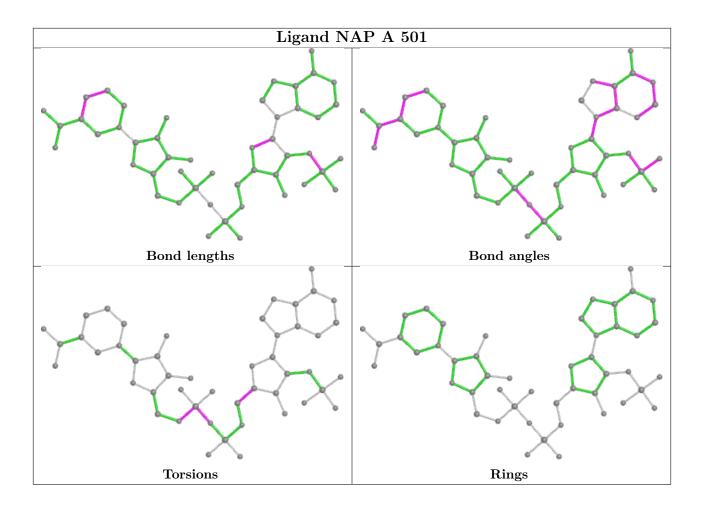
any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.











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	Analysed	$\langle RSRZ \rangle$	# RSRZ > 2	$OWAB(Å^2)$	Q<0.9
1	А	477/496~(96%)	0.02	16 (3%) 45 55	19, 28, 55, 78	0
1	В	477/496~(96%)	-0.01	15 (3%) 49 58	17, 27, 52, 74	0
All	All	954/992~(96%)	0.01	31 (3%) 47 57	17, 28, 54, 78	0

The worst 5 of 31 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	409	ASP	4.7
1	В	405	PRO	4.5
1	В	413	ARG	4.3
1	А	211	SER	4.2
1	В	213	LYS	3.8

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.

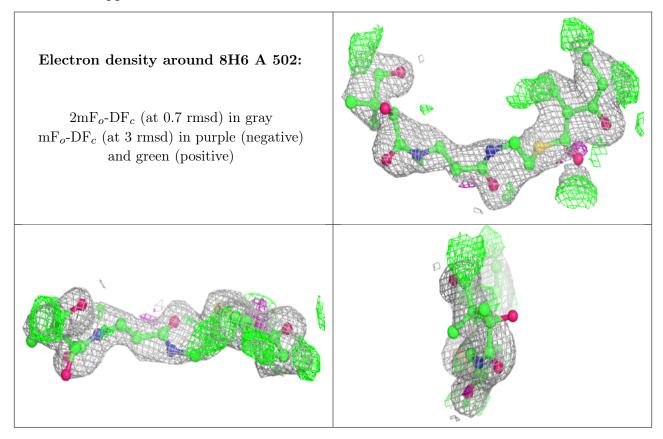
6.4 Ligands (i)

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.

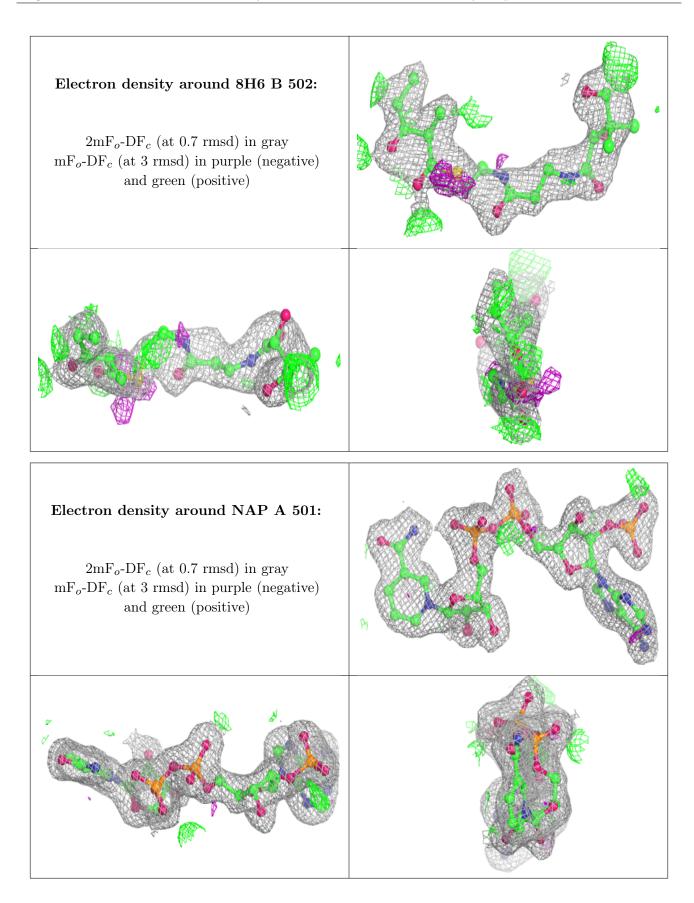


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q < 0.9
3	8H6	А	502	26/26	0.78	0.20	$36,\!49,\!58,\!76$	0
3	8H6	В	502	26/26	0.82	0.21	35,48,67,71	0
2	NAP	А	501	48/48	0.96	0.08	21,25,29,31	0
2	NAP	В	501	48/48	0.97	0.08	18,22,26,28	0

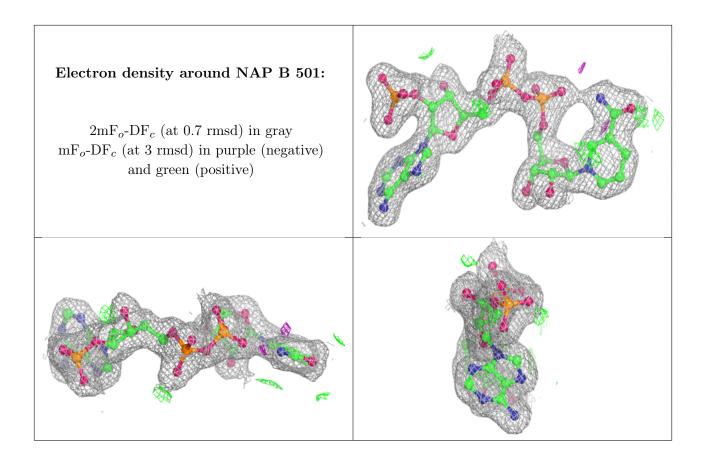
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.











6.5 Other polymers (i)

There are no such residues in this entry.

