

# wwPDB X-ray Structure Validation Summary Report (i)

#### Sep 19, 2023 – 06:05 AM EDT

PDB ID : 5D7C

Title: Crystal structure of the ATP binding domain of S. aureus GyrB complexed

with a ligand

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Deposited on : 2015-08-13

Resolution : 1.55 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:

 $Mol Probity \quad : \quad 4.02b\text{--}467$ 

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.35.1buster-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) : 2.35.1

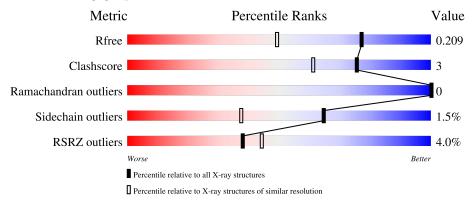


## 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 1.55 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
$R_{free}$	130704	1483 (1.56-1.56)
Clashscore	141614	1529 (1.56-1.56)
Ramachandran outliers	138981	1498 (1.56-1.56)
Sidechain outliers	138945	1495 (1.56-1.56)
RSRZ outliers	127900	1465 (1.56-1.56)

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	212	73%	15%	9%
1	В	212	76%	10%	12%



# 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 3586 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 DNA gyrase subunit B.

	$\mathbf{Mol}$	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
Ī	1	1 A	192	Total	С	N	О	S	0	19	0
	1		192	1618	1019	284	313	2		12	
	1	D	186	Total	С	N	О	S	0	5	0
	1	Ъ	100	1529	962	265	301	1	0	9	U

There are 50 discrepancies between the modelled and reference sequences:

Residue	Modelled	Actual	Comment	Reference
0	GLY	-	expression tag	UNP P0A0K8
1	SER	-	expression tag	UNP P0A0K8
?	-	VAL	deletion	UNP P0A0K8
?	-	LEU	deletion	UNP P0A0K8
?	-	HIS	deletion	UNP P0A0K8
?	-	ALA	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
?	-	LYS	deletion	UNP P0A0K8
?	-	PHE	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
?	-	TYR	deletion	UNP P0A0K8
?	-	LYS	deletion	UNP P0A0K8
?	-	VAL	deletion	UNP P0A0K8
?	-	SER	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
?	-	LEU	deletion	UNP P0A0K8
?	-	HIS	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
?	-	VAL	deletion	UNP P0A0K8
?	-	GLY	deletion	UNP P0A0K8
	0 1 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	0 GLY 1 SER ? - ? - ? - ? - ? - ? - ? - ? - ? - ? -	0 GLY - 1 SER - ? - VAL ? - LEU ? - HIS ? - ALA ? - GLY ? - TYR ? - GLY ? - LYS ? - LYS ? - LYS ? - GLY	0         GLY         -         expression tag           ?         -         VAL         deletion           ?         -         LEU         deletion           ?         -         HIS         deletion           ?         -         GLY         deletion           ?         -         TYR         deletion           ?         -         LYS         deletion           ?         -         SER         deletion           ?         -         GLY         deletion           ?         -         GLY

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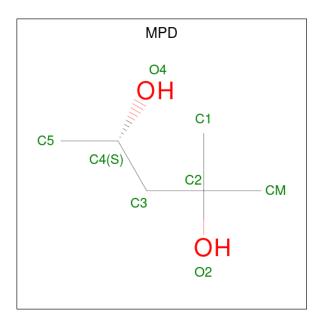


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Chain	Residue	Modelled	Actual	Comment	Reference
В	0	GLY	-	expression tag	UNP P0A0K8
В	1	SER	-	expression tag	UNP P0A0K8
В	?	-	VAL	deletion	UNP P0A0K8
В	?	-	LEU	deletion	UNP P0A0K8
В	?	-	HIS	deletion	UNP P0A0K8
В	?	-	ALA	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8
В	?	-	LYS	deletion	UNP P0A0K8
В	?	-	PHE	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8
В	?	-	TYR	deletion	UNP P0A0K8
В	?	-	LYS	deletion	UNP P0A0K8
В	?	-	VAL	deletion	UNP P0A0K8
В	?	-	SER	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8
В	?	-	LEU	deletion	UNP P0A0K8
В	?	-	HIS	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8
В	?	-	VAL	deletion	UNP P0A0K8
В	?	-	GLY	deletion	UNP P0A0K8

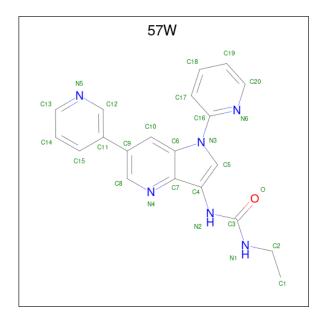
• Molecule 2 is (4S)-2-METHYL-2,4-PENTANEDIOL (three-letter code: MPD) (formula:  $C_6H_{14}O_2$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	Δ	1	Total C O	0	0
	11	1	8 6 2	O	0
9	Δ	1	Total C O	0	0
2	Λ	1	8 6 2	0	
2	В	1	Total C O	0	0
2	Ъ	1	8 6 2	0	
2	D	1	Total C O	0	0
2	Б	1	8 6 2	U	U

 $\bullet$  Molecule 3 is 1-ethyl-3-[1-(pyridin-2-yl)-6-(pyridin-3-yl)-1H-pyrrolo[3,2-b]pyridin-3-yl]urea (three-letter code: 57W) (formula:  $C_{20}H_{18}N_6O).$ 





Mol	Chain	Residues	${f Atoms}$				ZeroOcc	AltConf
3	A	1	Total 27	_		_	0	0
3	В	1	Total 27	C 20		O 1	0	0

 $\bullet$  Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Mg 1 1	0	0
4	В	7	Total Mg 7 7	0	0

• Molecule 5 is water.

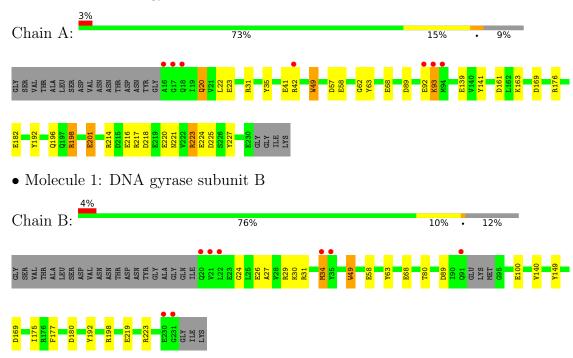
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	168	Total O 169 169	0	1
5	В	174	Total O 176 176	0	2



# 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: DNA gyrase subunit B





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	142.80Å 55.48Å 51.42Å	Donositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $100.77^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	37.78 - 1.55	Depositor
rtesolution (A)	37.78 - 1.55	EDS
% Data completeness	96.8 (37.78-1.55)	Depositor
(in resolution range)	96.8 (37.78-1.55)	EDS
$R_{merge}$	0.04	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.68 (at 1.55Å)	Xtriage
Refinement program	REFMAC 5.8.0103	Depositor
D D.	0.171 , 0.199	Depositor
$R, R_{free}$	0.185 , 0.209	DCC
$R_{free}$ test set	2846 reflections (5.11%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	21.6	Xtriage
Anisotropy	0.006	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.36, 44.6	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.51, < L^2>=0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	3586	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.22% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: MPD, MG, 57W

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	Bo	nd lengths	Bond angles		
MIOI	Moi Chain		# Z  > 5	RMSZ	# Z >5	
1	A	1.62	$24/1679 \ (1.4\%)$	1.55	26/2269 (1.1%)	
1	В	1.55	9/1568 (0.6%)	1.42	11/2121 (0.5%)	
All	All	1.58	33/3247 (1.0%)	1.49	37/4390 (0.8%)	

The worst 5 of 33 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
1	A	63	TYR	CG-CD1	-10.55	1.25	1.39
1	A	227	TYR	CE1-CZ	-9.89	1.25	1.38
1	A	49	TRP	CG-CD1	-9.18	1.24	1.36
1	В	58	GLU	CB-CG	-7.14	1.38	1.52
1	A	214	ARG	CD-NE	-7.12	1.34	1.46

The worst 5 of 37 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}(^{o})$
1	В	169	ASP	CB-CG-OD1	14.48	131.33	118.30
1	A	223[A]	ARG	NE-CZ-NH1	14.34	127.47	120.30
1	A	223[B]	ARG	NE-CZ-NH1	14.34	127.47	120.30
1	A	223[A]	ARG	NE-CZ-NH2	-12.38	114.11	120.30
1	A	223[B]	ARG	NE-CZ-NH2	-12.38	114.11	120.30

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	1618	0	1631	9	0
1	В	1529	0	1512	8	0
2	A	16	0	28	1	0
2	В	16	0	28	1	0
3	A	27	0	18	2	0
3	В	27	0	18	2	0
4	A	1	0	0	0	0
4	В	7	0	0	0	0
5	A	169	0	0	4	0
5	В	176	0	0	0	0
All	All	3586	0	3235	20	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 3.

The worst 5 of 20 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:A:223[B]:ARG:NH1	5:A:402:HOH:O	1.64	0.92
1:A:223[B]:ARG:HD2	5:A:401:HOH:O	1.69	0.91
3:B:303:57W:H9	3:B:303:57W:H18	1.63	0.80
3:A:303:57W:H9	3:A:303:57W:H18	1.82	0.60
1:A:223[A]:ARG:HD3	5:A:445:HOH:O	2.03	0.59

There are no symmetry-related clashes.

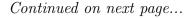
### 5.3 Torsion angles (i)

#### 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	Perce	ntiles
1	A	$202/212 \ (95\%)$	199 (98%)	3 (2%)	0	100	100





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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	$_{ m ntiles}$
1	В	187/212 (88%)	184 (98%)	3 (2%)	0	100	100
All	All	389/424 (92%)	383 (98%)	6 (2%)	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	180/183 (98%)	176 (98%)	4 (2%)	52 23
1	В	168/183 (92%)	166 (99%)	2 (1%)	71 49
All	All	348/366 (95%)	342 (98%)	6 (2%)	65 32

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

Mol	Chain	Res	Type
1	A	93	LYS
1	В	30	LYS
1	В	34	MET
1	A	20[B]	GLN
1	A	20[A]	GLN

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)

Of 14 ligands modelled in this entry, 8 are monoatomic - leaving 6 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	d Type Chain Re		Res	Link	Bond lengths		ths	Bond angles		
MIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
3	57W	A	303	-	30,30,30	1.78	9 (30%)	31,41,41	3.48	9 (29%)
2	MPD	В	301	-	7,7,7	0.89	0	9,10,10	1.22	0
3	57W	В	303	-	30,30,30	1.63	5 (16%)	31,41,41	3.02	10 (32%)
2	MPD	В	302	-	7,7,7	0.89	0	9,10,10	1.74	2 (22%)
2	MPD	A	302	-	7,7,7	0.88	0	9,10,10	1.03	0
2	MPD	A	301	-	7,7,7	0.98	0	9,10,10	1.27	2 (22%)

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	57W	A	303	-	-	0/11/15/15	0/4/4/4
2	MPD	В	301	-	-	3/5/5/5	-
3	57W	В	303	-	-	0/11/15/15	0/4/4/4
2	MPD	В	302	-	-	1/5/5/5	-
2	MPD	A	302	-	-	3/5/5/5	-
2	MPD	A	301	-	-	0/5/5/5	-

The worst 5 of 14 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	Observed(A)	$\operatorname{Ideal}( ext{\AA})$
3	В	303	57W	C20-N6	4.49	1.44	1.34
3	A	303	57W	C4-C7	3.92	1.50	1.43

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Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	Observed(A)	$\operatorname{Ideal}( ext{\AA})$
3	В	303	57W	C5-N3	-3.65	1.35	1.39
3	A	303	57W	C6-C7	3.46	1.47	1.40
3	A	303	57W	C12-N5	3.05	1.40	1.34

The worst 5 of 23 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	A	303	57W	C20-N6-C16	13.21	127.09	115.56
3	В	303	57W	C18-C17-C16	7.99	122.08	117.09
3	В	303	57W	C20-N6-C16	7.78	122.36	115.56
3	A	303	57W	C10-C6-C7	-6.94	113.98	120.55
3	В	303	57W	C14-C15-C11	-6.42	112.49	120.56

There are no chirality outliers.

5 of 7 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	302	MPD	C1-C2-C3-C4
2	A	302	MPD	O2-C2-C3-C4
2	В	301	MPD	C1-C2-C3-C4
2	В	301	MPD	O2-C2-C3-C4
2	В	302	MPD	O2-C2-C3-C4

There are no ring outliers.

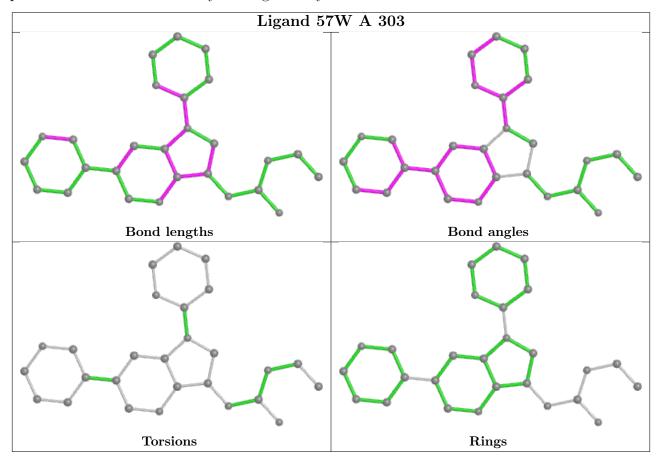
4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	303	57W	2	0
2	В	301	MPD	1	0
3	В	303	57W	2	0
2	A	301	MPD	1	0

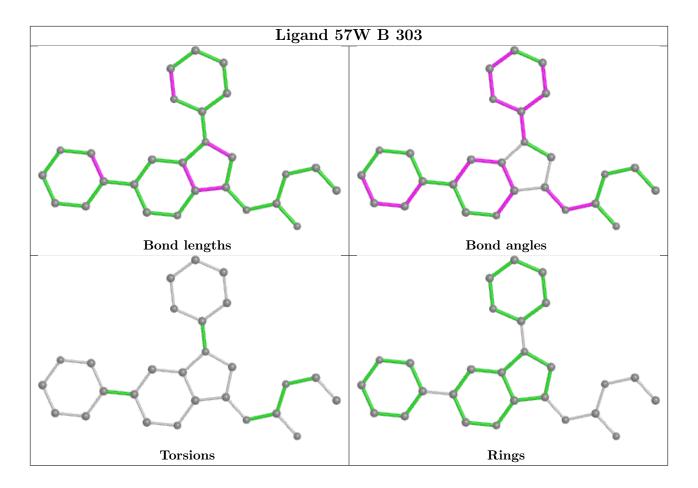
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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	<RSRZ $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	192/212 (90%)	0.18	7 (3%) 42 50	14, 20, 35, 73	0
1	В	186/212 (87%)	0.17	8 (4%) 35 40	13, 20, 42, 61	0
All	All	378/424 (89%)	0.17	15 (3%) 38 44	13, 20, 39, 73	0

The worst 5 of 15 RSRZ outliers are listed below:

Mol	Chain	$\operatorname{Res}$	Type	RSRZ
1	В	21	VAL	6.5
1	В	22	LEU	6.0
1	A	16	ALA	5.0
1	A	92	GLU	4.4
1	В	35	TYR	4.2

### 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 monosaccharides in this entry.

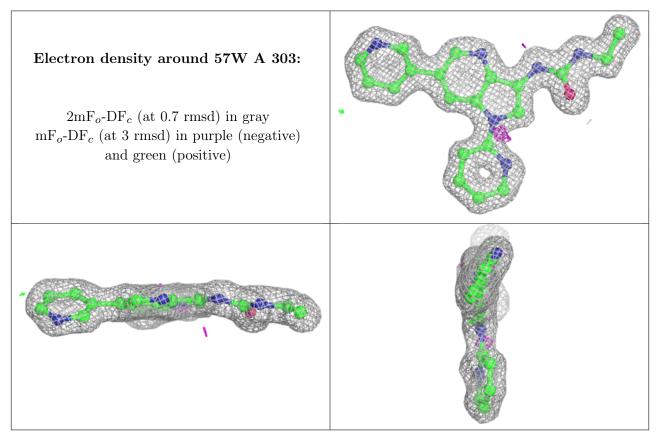
#### 6.4 Ligands (i)

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.

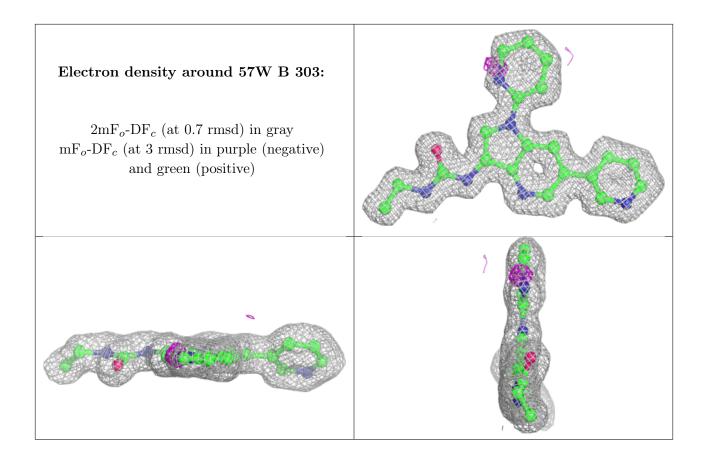


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	MPD	В	301	8/8	0.77	0.16	35,43,48,51	0
2	MPD	A	301	8/8	0.80	0.15	41,46,51,53	0
2	MPD	A	302	8/8	0.82	0.18	30,40,51,60	0
4	MG	В	304	1/1	0.83	0.24	41,41,41,41	0
2	MPD	В	302	8/8	0.85	0.15	26,34,36,39	0
4	MG	A	304	1/1	0.88	0.12	31,31,31,31	0
4	MG	В	310	1/1	0.88	0.36	40,40,40,40	0
4	MG	В	307	1/1	0.90	0.28	41,41,41,41	0
3	57W	A	303	27/27	0.91	0.09	19,21,30,32	0
3	57W	В	303	27/27	0.93	0.09	14,17,23,27	0
4	MG	В	309	1/1	0.97	0.16	35,35,35,35	0
4	MG	В	306	1/1	0.97	0.24	27,27,27,27	0
4	MG	В	305	1/1	0.98	0.07	28,28,28,28	0
4	MG	В	308	1/1	0.99	0.27	28,28,28,28	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.

