

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

#### Feb 25, 2024 – 01:35 PM EST

PDB ID : 5HJS

Title : Identification of LXRbeta selective agonists for the treatment of Alzheimer's

Disease

Authors: Parthasarathy, G.; Klein, D.

Deposited on : 2016-01-13

Resolution : 1.72 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 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)

 $Refmac \quad : \quad 5.8.0158$ 

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

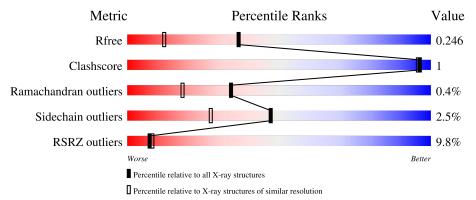
Validation Pipeline (wwPDB-VP) : 2.36

# 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.72 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
$R_{free}$	130704	5722 (1.74-1.70)
Clashscore	141614	6152 (1.74-1.70)
Ramachandran outliers	138981	6051 (1.74-1.70)
Sidechain outliers	138945	6051 (1.74-1.70)
RSRZ outliers	127900	5629 (1.74-1.70)

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	283	76%	• 20%					
1	В	283	7%	5% • 20%					
2	С	25	60%	40%					
2	D	25	60%	40%					



# 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 4366 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 Oxysterols receptor LXR-alpha.

	Mol	Chain	Residues	${f Atoms}$			ZeroOcc	AltConf	Trace		
Ī	1	Λ	226	Total	С	N	О	S	0	0	0
	1	А	220	1844	1182	321	335	6	U	U	U
	1	D	226	Total	С	N	О	S	0	1	0
	1	Ъ	220	1852	1187	324	335	6	0	0 1	U

There are 34 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	expression tag	UNP Q13133
A	2	LYS	-	expression tag	UNP Q13133
A	3	HIS	-	expression tag	UNP Q13133
A	4	GLN	-	expression tag	UNP Q13133
A	5	HIS	-	expression tag	UNP Q13133
A	6	GLN	-	expression tag	UNP Q13133
A	7	HIS	-	expression tag	UNP Q13133
A	8	GLN	-	expression tag	UNP Q13133
A	9	HIS	-	expression tag	UNP Q13133
A	10	GLN	-	expression tag	UNP Q13133
A	11	HIS	-	expression tag	UNP Q13133
A	12	GLN	-	expression tag	UNP Q13133
A	13	HIS	-	expression tag	UNP Q13133
A	14	GLN	-	expression tag	UNP Q13133
A	15	GLN	-	expression tag	UNP Q13133
A	16	PRO	-	expression tag	UNP Q13133
A	17	LEU	-	expression tag	UNP Q13133
В	1	MET	-	expression tag	UNP Q13133
В	2	LYS	-	expression tag	UNP Q13133
В	3	HIS	-	expression tag	UNP Q13133
В	4	GLN	-	expression tag	UNP Q13133
В	5	HIS	-	expression tag	UNP Q13133
В	6	GLN	-	expression tag	UNP Q13133
В	7	HIS		expression tag	UNP Q13133
В	8	GLN	-	expression tag	UNP Q13133



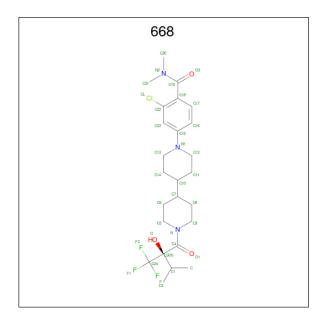
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Chain	Residue	Modelled	Actual	Comment	Reference
В	9	HIS	-	expression tag	UNP Q13133
В	10	GLN	-	expression tag	UNP Q13133
В	11	HIS	-	expression tag	UNP Q13133
В	12	GLN	-	expression tag	UNP Q13133
В	13	HIS	-	expression tag	UNP Q13133
В	14	GLN	-	expression tag	UNP Q13133
В	15	GLN	-	expression tag	UNP Q13133
В	16	PRO	-	expression tag	UNP Q13133
В	17	LEU	-	expression tag	UNP Q13133

• Molecule 2 is a protein called Nuclear receptor coactivator 1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	С	15	Total 131				0	0	0
2	D	15	Total 131		N 27	O 22	0	0	0

• Molecule 3 is 2-chloro-4- $\{1'-[(2R)-2-hydroxy-3-methyl-2-(trifluoromethyl)butanoyl]-4,4'-bipi peridin-1-yl\}-N,N-dimethylbenzamide (three-letter code: 668) (formula: <math>C_{25}H_{35}ClF_3N_3O_3$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf		
9	Λ	1	Total	С	Cl	F	N	О	0	0	
3 A	1	35	25	1	3	3	3	U			
9	D	1	Total	С	Cl	F	N	О	0	0	
3	Б	B I		25	1	3	3	3	U	0	



 $\bullet$  Molecule 4 is SULFATE ION (three-letter code: SO4) (formula: O<sub>4</sub>S).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	С	1	Total O S 5 4 1	0	0
4	D	1	Total O S 5 4 1	0	0

• Molecule 5 is water.

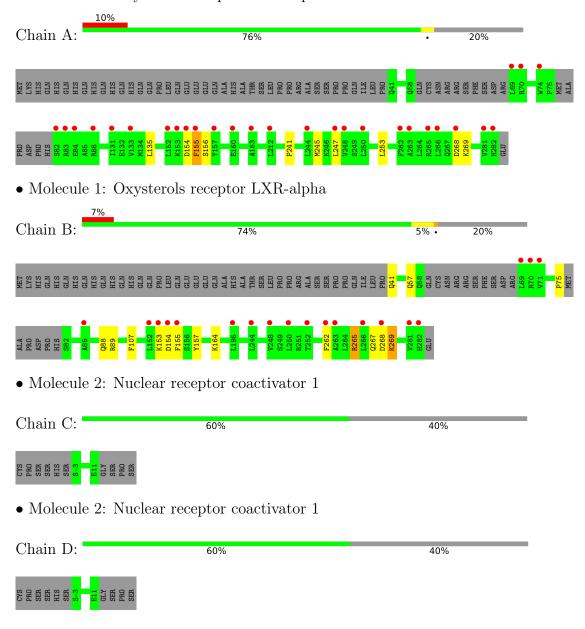
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	137	Total O 137 137	0	0
5	В	163	Total O 163 163	0	0
5	С	17	Total O 17 17	0	0
5	D	11	Total O 11 11	0	0



# 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: Oxysterols receptor LXR-alpha





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 4 21 2	Depositor
Cell constants	125.01Å 125.01Å 92.34Å	Donogiton
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	32.46 - 1.72	Depositor
rtesolution (A)	32.46 - 1.72	EDS
% Data completeness	78.4 (32.46-1.72)	Depositor
(in resolution range)	78.6 (32.46-1.72)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.32 (at 1.72Å)	Xtriage
Refinement program	BUSTER-TNT BUSTER 2.11.5	Depositor
P. P.	0.208 , 0.238	Depositor
$R, R_{free}$	0.215 , $0.246$	DCC
$R_{free}$ test set	3104 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	26.5	Xtriage
Anisotropy	0.022	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.36, 49.1	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	0.95	EDS
Total number of atoms	4366	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 39.73 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 3.0365e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

<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: SO4, 668

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		RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.51	0/1882	0.61	0/2545	
1	В	0.52	0/1893	0.63	0/2559	
2	С	0.42	0/132	0.53	0/175	
2	D	0.50	0/132	0.65	0/175	
All	All	0.51	0/4039	0.62	0/5454	

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)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
1	A	1844	0	1853	2	0
1	В	1852	0	1866	6	0
2	С	131	0	142	0	0
2	D	131	0	142	0	0
3	A	35	0	0	0	0
3	В	35	0	0	0	0
4	С	5	0	0	0	0
4	D	5	0	0	0	0
5	A	137	0	0	0	0



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Mol	Chain	Non-H	H(model)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
5	В	163	0	0	0	0
5	С	17	0	0	0	0
5	D	11	0	0	0	0
All	All	4366	0	4003	8	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 1.

All (8) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${ m distance}({ m \AA})$	overlap (Å)
1:A:135:LEU:HD13	1:A:253:LEU:HD13	1.83	0.60
1:B:267:GLN:HE21	1:B:269:LYS:HE3	1.67	0.58
1:A:241:PRO:O	1:A:245:MET:HG2	2.13	0.48
1:B:262:PHE:O	1:B:265:ARG:HB2	2.16	0.45
1:B:155:PHE:HB3	1:B:157:TYR:CE2	2.52	0.45
1:B:75:PRO:HG3	1:B:88:GLN:HB3	2.00	0.43
1:B:89:ARG:HD3	1:B:164:LYS:HB3	2.00	0.42
1:B:57:GLN:HG3	1:B:107:PHE:CE1	2.57	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	Perce	ntiles
1	A	$220/283 \ (78\%)$	215 (98%)	4 (2%)	1 (0%)	29	13
1	В	221/283 (78%)	217 (98%)	3 (1%)	1 (0%)	29	13
2	С	13/25 (52%)	12 (92%)	1 (8%)	0	100	100
2	D	13/25 (52%)	12 (92%)	1 (8%)	0	100	100
All	All	467/616 (76%)	456 (98%)	9 (2%)	2 (0%)	34	18



All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	155	PHE
1	В	153	LYS

#### 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	$204/257 \ (79\%)$	198 (97%)	6 (3%)	42 22
1	В	205/257 (80%)	200 (98%)	5 (2%)	49 29
2	С	15/24 (62%)	15 (100%)	0	100 100
2	D	15/24 (62%)	15 (100%)	0	100 100
All	All	439/562 (78%)	428 (98%)	11 (2%)	47 27

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	154	ASP
1	A	155	PHE
1	A	156	SER
1	A	247	LEU
1	A	268	ASP
1	A	269	LYS
1	В	41	GLN
1	В	154	ASP
1	В	265	ARG
1	В	268	ASP
1	В	269	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

$\mathbf{Mol}$	Chain	$\operatorname{Res}$	Type
1	A	168	GLN
1	A	267	GLN



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Mol	Chain	Res	Type
1	В	168	GLN
1	В	267	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	Trme	Chain	Des	Link	Bond lengths			Bond angles		
MIOI	Type	Chain	Res	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	SO4	D	101	-	4,4,4	0.18	0	6,6,6	0.21	0
4	SO4	С	101	-	4,4,4	0.29	0	6,6,6	0.23	0
3	668	A	301	-	36,37,37	0.97	3 (8%)	48,56,56	1.07	5 (10%)
3	668	В	301	-	36,37,37	1.08	3 (8%)	48,56,56	1.03	5 (10%)

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	668	A	301	-	-	8/40/61/61	0/3/3/3
3	668	В	301	-	-	13/40/61/61	0/3/3/3

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
3	В	301	668	C13-N1	4.03	1.53	1.46
3	В	301	668	C15-N1	3.52	1.48	1.38
3	A	301	668	C15-N1	3.51	1.48	1.38
3	A	301	668	C13-N1	3.45	1.52	1.46
3	В	301	668	C12-N1	3.32	1.51	1.46
3	A	301	668	C12-N1	2.81	1.51	1.46

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$Ideal(^{o})$
3	A	301	668	C11-C12-N1	-3.10	104.71	111.10
3	A	301	668	C12-N1-C15	-2.99	110.01	118.09
3	В	301	668	C12-N1-C13	2.80	117.71	111.52
3	В	301	668	O1-C4-C3	-2.72	111.70	118.69
3	A	301	668	O1-C4-C3	-2.65	111.89	118.69
3	В	301	668	C12-N1-C15	-2.62	111.01	118.09
3	В	301	668	C24-C3-C4	-2.54	104.21	108.47
3	В	301	668	C23-C15-N1	-2.32	118.84	121.33
3	A	301	668	C23-C15-N1	-2.31	118.85	121.33
3	A	301	668	C24-C3-C4	-2.17	104.83	108.47

There are no chirality outliers.

All (21) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	301	668	O-C3-C4-N
3	В	301	668	F2-C24-C3-C1
3	В	301	668	F-C24-C3-C1
3	В	301	668	F1-C24-C3-C1
3	В	301	668	O-C3-C4-N
3	В	301	668	C14-C10-C7-C6
3	В	301	668	C14-C10-C7-C8
3	В	301	668	F1-C24-C3-O
3	A	301	668	C24-C3-C4-O1
3	A	301	668	O-C3-C4-O1
3	В	301	668	O-C3-C4-O1



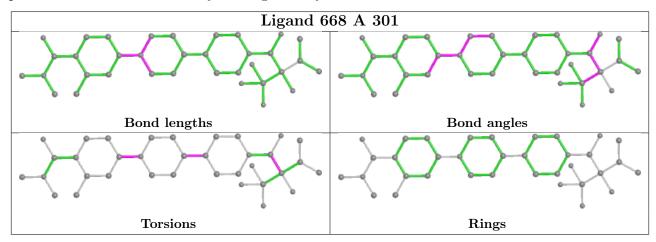
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Mol	Chain	Res	Type	Atoms
3	A	301	668	C1-C3-C4-O1
3	A	301	668	C14-C10-C7-C6
3	A	301	668	C16-C15-N1-C12
3	В	301	668	F2-C24-C3-O
3	В	301	668	F-C24-C3-O
3	В	301	668	C24-C3-C4-O1
3	A	301	668	C23-C15-N1-C12
3	A	301	668	C24-C3-C4-N
3	В	301	668	C24-C3-C4-N
3	В	301	668	C1-C3-C4-O1

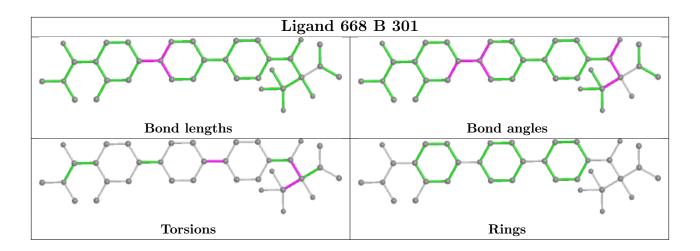
There are no ring outliers.

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	Analysed	<RSRZ $>$ $#$ RSRZ $>$ 2		$OWAB(A^2)$	Q<0.9
1	A	$226/283 \ (79\%)$	0.48	28 (12%) 4 4	19, 34, 72, 93	0
1	В	$226/283 \ (79\%)$	0.23	19 (8%) 11 12	21, 31, 63, 101	0
2	С	15/25~(60%)	-0.45	0 100 100	25, 30, 48, 71	0
2	D	15/25~(60%)	-0.34	0 100 100	26, 29, 53, 63	0
All	All	482/616 (78%)	0.31	47 (9%) 7 8	19, 32, 69, 101	0

All (47) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	266	LEU	6.4
1	A	155	PHE	5.8
1	В	266	LEU	5.6
1	В	268	ASP	5.4
1	A	83	ARG	5.1
1	В	69	LEU	5.0
1	В	281	VAL	4.9
1	В	70	ARG	4.8
1	A	262	PHE	4.7
1	A	247	LEU	4.5
1	A	281	VAL	4.4
1	A	268	ASP	4.3
1	A	250	LEU	4.3
1	A	70	ARG	4.1
1	В	282	HIS	4.0
1	A	74	TRP	3.8
1	В	262	PHE	3.7
1	A	153	LYS	3.7
1	A	86	ARG	3.5
1	A	154	ASP	3.5
1	В	85	ALA	3.4



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Mol	Chain	Res	Type	RSRZ
1	A	244	LEU	3.3
1	A	265	ARG	3.3
1	A	282	HIS	3.2
1	A	263	ALA	3.2
1	В	195	LEU	3.1
1	В	153	LYS	3.1
1	A	82	SER	2.9
1	В	244	LEU	2.8
1	A	69	LEU	2.7
1	A	248	VAL	2.7
1	A	163	ALA	2.4
1	В	71	VAL	2.4
1	A	152	LEU	2.4
1	В	252	THR	2.4
1	В	250	LEU	2.3
1	A	212	LEU	2.3
1	В	152	LEU	2.3
1	A	84	GLU	2.3
1	В	263	ALA	2.2
1	A	131	ILE	2.2
1	В	154	ASP	2.2
1	В	248	VAL	2.2
1	A	133	VAL	2.1
1	A	157	TYR	2.1
1	A	160	GLU	2.0
1	В	155	PHE	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 monosaccharides in this entry.

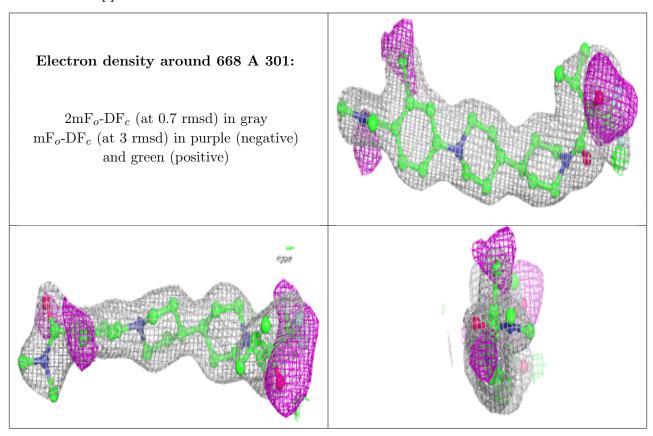
### 6.4 Ligands (i)

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.

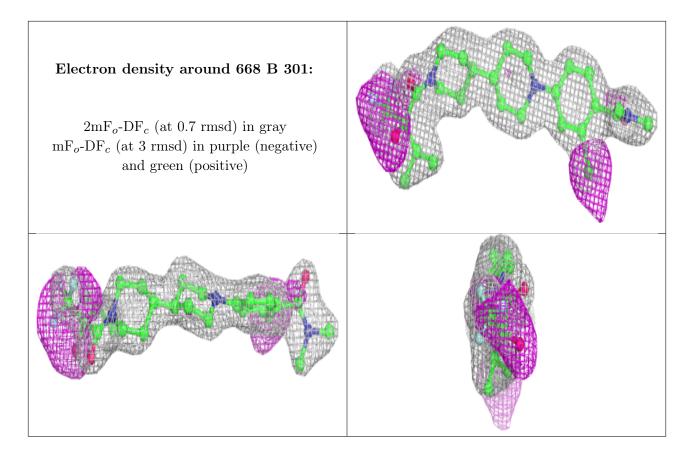


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	668	A	301	35/35	0.71	0.20	40,53,74,77	0
3	668	В	301	35/35	0.71	0.19	34,49,63,66	0
4	SO4	D	101	5/5	0.99	0.07	24,24,29,31	5
4	SO4	С	101	5/5	1.00	0.06	25,27,30,30	5

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.

