

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

#### Aug 21, 2020 – 08:50 AM BST

PDB ID : 6QMR

Title: Complement factor D in complex with the inhibitor (S)-2-(2-((3'-(1-amino-2-

hydroxyethyl)-[1,1'-biphenyl]-3-yl)methoxy)phenyl)acetic acid

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Deposited on : 2019-02-08

Resolution : 2.00 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.orgA 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 as 541 be (2020)

Xtriage (Phenix) : 1.13

 $EDS \quad : \quad 2.13.1$ 

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)

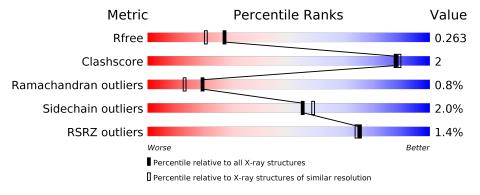
Validation Pipeline (wwPDB-VP) : 2.13.1

## 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 2.00 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
$R_{free}$	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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 <=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	254	83%	7%	• 9%
1	В	254	84%	6%	10%
1	С	254	83%	6% •	10%
1	D	254	84%	6%	10%
1	Е	254	83%	7%	10%
1	F	254	83%	6%	11%



# 2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 10940 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 Complement factor D.

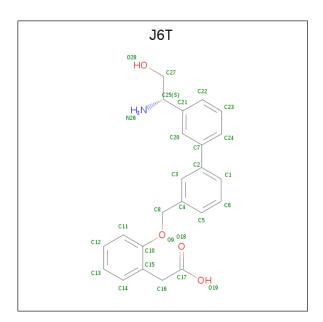
Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	A	230	Total	С	N	О	S	0	5	0
1	A	250	1748	1083	329	325	11	0	9	
1	В	229	Total	С	N	О	S	0	6	0
1	Ъ	229	1751	1085	331	324	11	0	0	0
1	С	229	Total	С	N	О	S	0	6	0
1		229	1736	1078	326	321	11	0	0	U
1	D	229	Total	С	N	О	S	0	6	0
1	ש	229	1737	1079	325	322	11	0	O	0
1	Е	229	Total	С	N	О	S	0	5	0
1	12	229	1743	1080	328	324	11	U	9	
1	F	227	Total	С	N	О	S	0	6	0
1	Г	221	1737	1078	329	319	11	U	U	U

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	244	SER	-	expression tag	UNP P00746
A	245	ALA	-	expression tag	UNP P00746
В	244	SER	-	expression tag	UNP P00746
В	245	ALA	-	expression tag	UNP P00746
С	244	SER	-	expression tag	UNP P00746
С	245	ALA	-	expression tag	UNP P00746
D	244	SER	=	expression tag	UNP P00746
D	245	ALA	-	expression tag	UNP P00746
Е	244	SER	-	expression tag	UNP P00746
Е	245	ALA	=	expression tag	UNP P00746
F	244	SER	_	expression tag	UNP P00746
F	245	ALA	-	expression tag	UNP P00746

• Molecule 2 is 2-[2-[[3-[3-[(1 {S}))-1-azanyl-2-oxidanyl-ethyl]phenyl]phenyl]methoxy]phenyl]et hanoic acid (three-letter code: J6T) (formula: C<sub>23</sub>H<sub>23</sub>NO<sub>4</sub>) (labeled as "Ligand of Interest" by author).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	
2	A	1	Total C N O	0	0	
	Λ	1	28 23 1 4	U	U	
2	В	1	Total C N O	0	0	
		1	28 23 1 4	0	U	
2	С	1	Total C N O	0	0	
		1	28 23 1 4	0		
$\frac{1}{2}$	D	1	Total C N O	0	0	
	D	1	28 23 1 4	0	U	
	E	1	Total C N O	0	0	
	נו	1	28 23 1 4	O O		
2	F	1	Total C N O	0	0	
	T	1	28 23 1 4			

### • Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	51	Total O 51 51	0	0
3	В	56	Total O 56 56	0	0
3	С	71	Total O 71 71	0	0
3	D	51	Total O 51 51	0	0
3	E	52	Total O 52 52	0	0
3	F	39	Total O 39 39	0	0



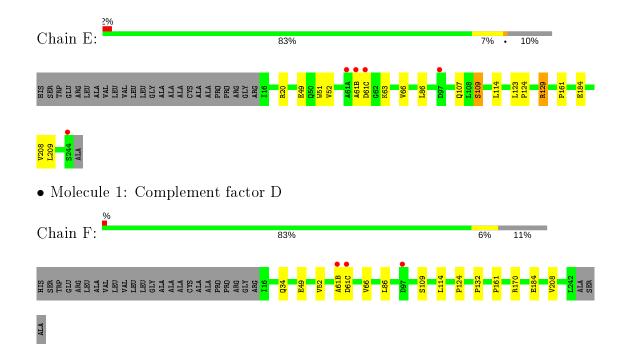
## 3 Residue-property plots (i)

• Molecule 1: Complement factor D

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: Complement factor D Chain A: • Molecule 1: Complement factor D Chain B: 84% 6% 10% • Molecule 1: Complement factor D Chain C: 83% 10% 6% • • Molecule 1: Complement factor D Chain D: 84% 10%







## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	66.15	Danasitan
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$83.69^{\circ}$ $64.36^{\circ}$ $74.65^{\circ}$	Depositor
Resolution (Å)	49.23 - 2.00	Depositor
Resolution (A)	49.23 - 2.00	EDS
% Data completeness	87.5 (49.23-2.00)	Depositor
(in resolution range)	87.5 (49.23 - 2.00)	EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	4.15 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.8.0238, BUSTER	Depositor
D D.	0.220 , $0.256$	Depositor
$R, R_{free}$	0.221 , $0.263$	DCC
$R_{free}$ test set	3351 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	20.2	Xtriage
Anisotropy	0.036	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.31 , 36.1	EDS
L-test for twinning <sup>2</sup>	$< L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	$0.015 \; { m for} \; { m -h,-k,-h+l}$	Xtriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	10940	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	23.0	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 49.40 % 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 7.4992e-05. 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: J6T

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	
MIOI	Chain	RMSZ	# Z >5	RMSZ	# Z  > 5
1	A	0.46	0/1792	0.67	0/2439
1	В	0.46	0/1798	0.67	0/2446
1	С	0.50	0/1783	0.69	0/2429
1	D	0.48	0/1784	0.66	0/2429
1	E	0.47	0/1787	0.66	0/2432
1	F	0.46	0/1784	0.66	0/2427
All	All	0.47	0/10728	0.67	0/14602

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	$\mathbf{H}(\mathbf{model})$	H(added)	Clashes	Symm-Clashes
1	A	1748	0	1742	9	0
1	В	1751	0	1750	9	0
1	С	1736	0	1728	9	0
1	D	1737	0	1728	5	0
1	Е	1743	0	1737	10	0
1	F	1737	0	1738	9	0
2	A	28	0	0	0	0

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Continued	trom	nremous	naae
-	110116	picolous	puyc

Mol	Chain	Non-H	H(model)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
2	В	28	0	0	0	0
2	С	28	0	0	0	0
2	D	28	0	0	0	0
2	Е	28	0	0	0	0
2	F	28	0	0	0	0
3	A	51	0	0	1	0
3	В	56	0	0	0	0
3	С	71	0	0	1	0
3	D	51	0	0	0	0
3	Е	52	0	0	0	0
3	F	39	0	0	0	0
All	All	10940	0	10423	42	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 2.

The worst 5 of 42 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{aligned}  ext{Interatomic} \  ext{distance} \ ( ext{Å}) \end{aligned}$	$egin{array}{c}  ext{Clash} \  ext{overlap } ( ext{Å}) \end{array}$
1:B:208:VAL:HG21	1:E:124:PRO:HG2	1.69	0.75
1:A:124:PRO:HG2	1:F:208:VAL:HG21	1.69	0.73
1:A:208:VAL:HG21	1:F:124:PRO:HG2	1.76	0.68
1:B:124:PRO:HG2	1:E:208:VAL:HG21	1.75	0.67
1:A:52:VAL:HG21	1:A:66:VAL:HG11	1.85	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	Favoured Allowed		Percentiles	
1	A	233/254 (92%)	225 (97%)	6 (3%)	2 (1%)	17 11	

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Continued	trom	nromanne	naae
-	110116	picolous	puyc

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles		
1	В	233/254~(92%)	226 (97%)	5 (2%)	2 (1%)	17	11	
1	$^{\mathrm{C}}$	233/254~(92%)	224 (96%)	8 (3%)	1 (0%)	34	30	
1	D	233/254~(92%)	226 (97%)	5 (2%)	2 (1%)	17	11	
1	E	232/254~(91%)	223 (96%)	7 (3%)	2 (1%)	17	11	
1	F	231/254 (91%)	223 (96%)	6 (3%)	2 (1%)	17	11	
All	All	$1395/1524 \ (92\%)$	1347 (97%)	37 (3%)	11 (1%)	19	13	

#### 5 of 11 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	61(C)	ASP
1	В	61(B)	ALA
1	В	61(C)	ASP
1	D	61(B)	ALA
1	D	61(C)	ASP

#### 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	188/199 (94%)	184 (98%)	4 (2%)	53 57		
1	В	189/199 (95%)	185 (98%)	4 (2%)	53 57		
1	С	186/199 (94%)	181 (97%)	5 (3%)	44 46		
1	D	186/199 (94%)	182 (98%)	4 (2%)	52 55		
1	E	188/199 (94%)	184 (98%)	4 (2%)	53 57		
1	F	187/199 (94%)	186 (100%)	1 (0%)	88 92		
All	All	1124/1194 (94%)	1102 (98%)	22 (2%)	55 58		

5 of 22 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	86	LEU

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Mol	Chain	Res	Type
1	С	223	ARG
1	E	129	ARG
1	С	99	ILE
1	С	109	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	186	ASN
1	E	186	ASN
1	F	186	ASN

#### 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)

6 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
		туре	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	$RMSZ \mid \# Z  > 2$	
	2	J6T	Е	301	-	27,30,30	1.30	2 (7%)	35,40,40	1.04	1 (2%)



Mol	Tree	Chain	Res	Link	Bo	nd leng	ths	В	ond ang	les
MIOI	Type	Chain	nes	tes Link	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	J6T	A	301	-	27,30,30	1.33	3 (11%)	35,40,40	1.05	2 (5%)
2	J6T	С	301	-	27,30,30	1.11	0	35,40,40	1.01	3 (8%)
2	J6T	D	301	-	27,30,30	1.24	2 (7%)	35,40,40	1.09	3 (8%)
2	J6T	F	301	-	27,30,30	1.06	0	35,40,40	0.96	1 (2%)
2	J6T	В	301	-	27,30,30	1.15	1 (3%)	35,40,40	0.91	2 (5%)

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	J6T	E	301	_	-	1/17/19/19	0/3/3/3
2	J6T	A	301	-	-	1/17/19/19	0/3/3/3
2	J6T	С	301	_	-	0/17/19/19	0/3/3/3
2	J6T	D	301	_	-	1/17/19/19	0/3/3/3
2	J6T	F	301	_	-	1/17/19/19	0/3/3/3
2	J6T	В	301	-	-	1/17/19/19	0/3/3/3

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}(\text{\AA})$
2	Ε	301	J6T	C21-C25	2.55	1.55	1.52
2	A	301	J6T	C10-C15	2.47	1.44	1.40
2	В	301	J6T	C21-C25	2.40	1.55	1.52
2	A	301	J6T	C21-C25	2.38	1.55	1.52
2	E	301	J6T	O9-C10	2.12	1.41	1.37

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^o)$
2	E	301	J6T	C8-O9-C10	4.48	126.57	117.76
2	D	301	J6T	C8-O9-C10	3.78	125.19	117.76
2	A	301	J6T	C8-O9-C10	3.41	124.47	117.76
2	В	301	J6T	O9-C10-C15	3.21	119.97	115.78
2	D	301	J6T	O9-C10-C15	2.93	119.61	115.78

There are no chirality outliers.

All (5) torsion outliers are listed below:

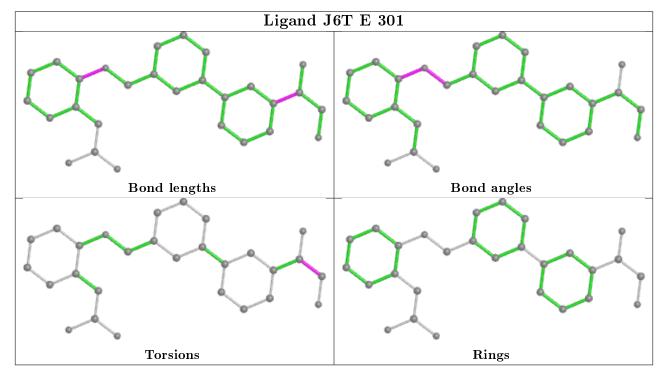


Mol	Chain	Res	Type	Atoms
2	A	301	J6T	C21-C25-C27-O28
2	F	301	J6T	C21-C25-C27-O28
2	D	301	J6T	C21-C25-C27-O28
2	В	301	J6T	C21-C25-C27-O28
2	Е	301	J6T	C21-C25-C27-O28

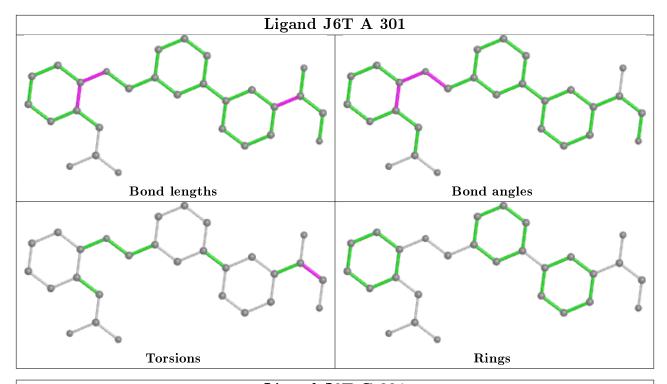
There are no ring outliers.

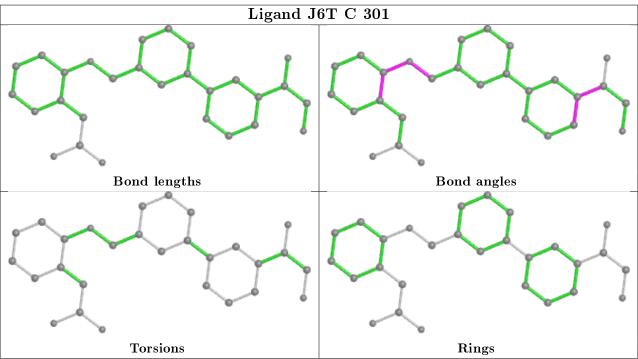
No monomer is involved in short contacts.

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.

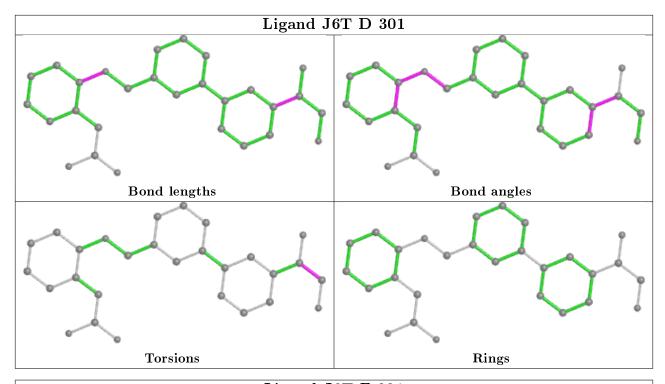


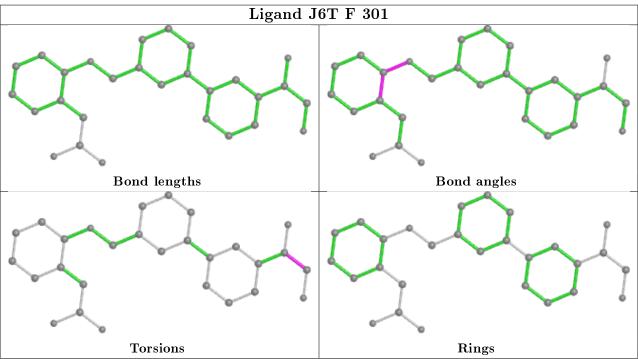




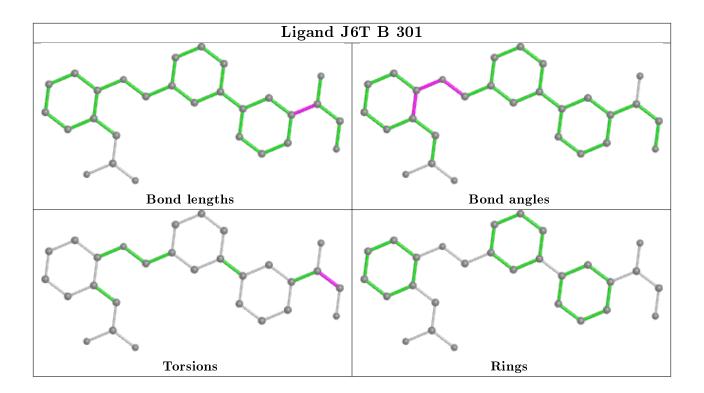












# 5.7 Other polymers (i)

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	${f Analy sed}$	<RSRZ $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q < 0.9
1	A	$230/254\ (90\%)$	-0.36	2 (0%) 84 83	7, 19, 46, 61	0
1	В	$229/254\ (90\%)$	-0.33	2 (0%) 84 83	5, 18, 44, 69	0
1	С	229/254~(90%)	-0.26	4 (1%) 70 68	8, 19, 45, 64	0
1	D	229/254~(90%)	-0.24	3 (1%) 77 76	7, 21, 47, 67	0
1	E	229/254~(90%)	-0.27	5 (2%) 62 60	10, 20, 45, 68	0
1	F	227/254~(89%)	-0.17	3 (1%) 77 76	10, 23, 51, 62	0
All	All	1373/1524 (90%)	-0.27	19 (1%) 75 74	5, 20, 47, 69	0

The worst 5 of 19 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	61(B)	ALA	6.7
1	В	61(B)	ALA	6.7
1	E	61(B)	ALA	5.1
1	D	61(C)	ASP	4.1
1	A	61(B)	ALA	3.9

### 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.

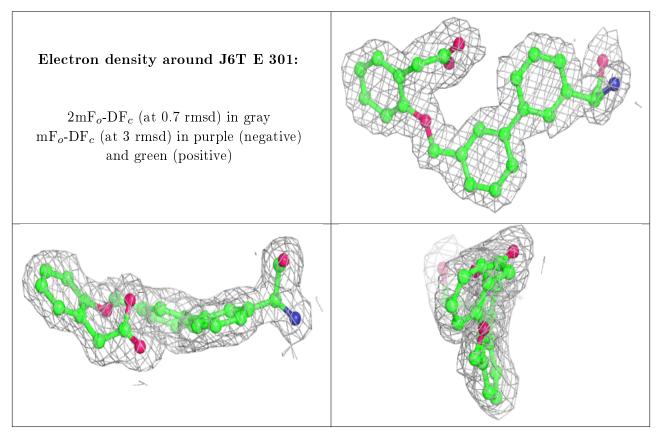


## 6.4 Ligands (i)

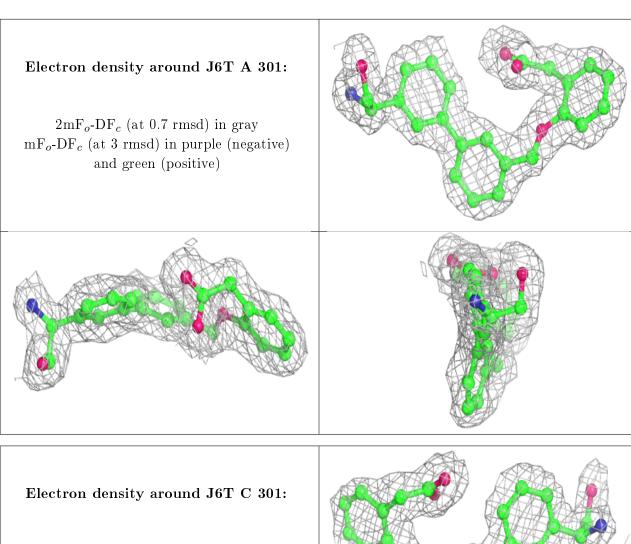
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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	$_{ m J6T}$	E	301	28/28	0.95	0.09	12,17,20,21	0
2	$_{ m J6T}$	A	301	28/28	0.95	0.08	10,16,20,20	0
2	J6T	С	301	28/28	0.95	0.08	5,15,22,24	0
2	$_{ m J6T}$	D	301	28/28	0.95	0.09	13,19,23,25	0
2	J6T	F	301	28/28	0.95	0.08	10,18,22,23	0
2	J6T	В	301	28/28	0.96	0.07	7,15,24,26	0

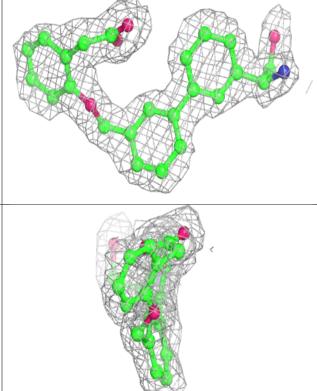
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

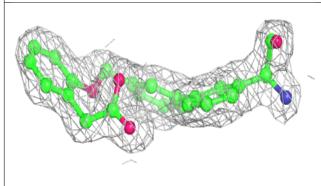




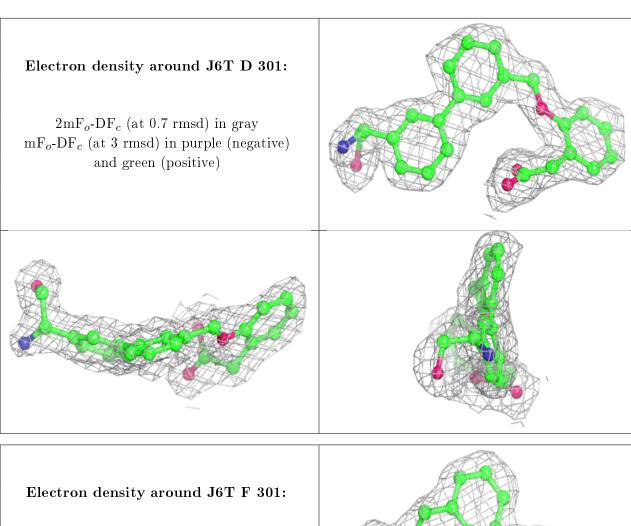


 $2 {
m mF}_o {
m -DF}_c$  (at 0.7 rmsd) in gray  ${
m mF}_o {
m -DF}_c$  (at 3 rmsd) in purple (negative) and green (positive)

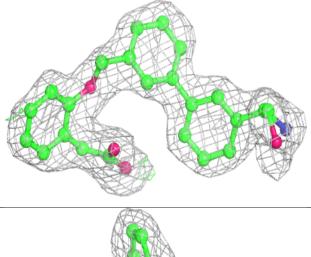


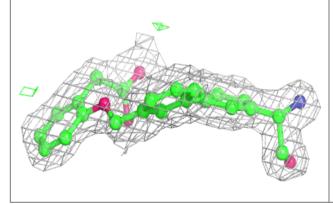


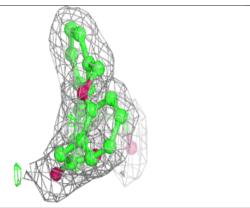




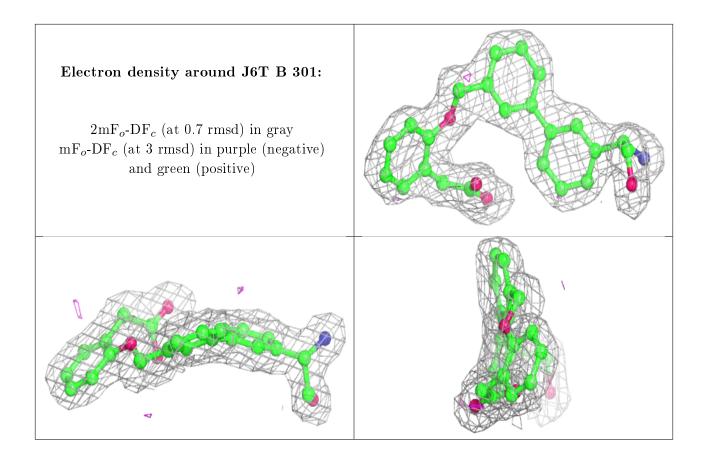
 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$  (at 0.7 rmsd) in gray  $\mathrm{mF}_o\text{-}\mathrm{DF}_c$  (at 3 rmsd) in purple (negative) and green (positive)











# 6.5 Other polymers (i)

There are no such residues in this entry.

