

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

#### May 16, 2020 – 05:24 am BST

PDB ID : 6GLB

Title: Crystal structure of JAK3 in complex with Compound 20 (FM484)

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Deposited on : 2018-05-23

Resolution : 2.00 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 : 2.11

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)

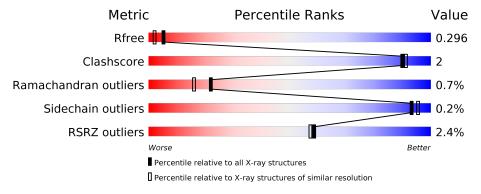
Validation Pipeline (wwPDB-VP) : 2.11

## 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$egin{aligned}  ext{Similar resolution} \ (\# ext{Entries},  ext{resolution range}( ext{Å})) \end{aligned}$		
$R_{free}$	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	294	92%	6% •			
1	В	294	93%	5% •			



## 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 4932 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 Tyrosine-protein kinase JAK3.

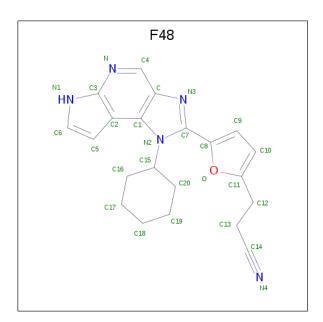
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	288	Total 2298	C 1462	N 407	O 415	S 14	0	1	0
1	В	288	Total 2298	C 1462	N 407	O 415	S 14	0	1	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	810	SER	-	expression tag	UNP P52333
A	811	MET	-	expression tag	UNP P52333
A	949	ALA	ASP	conflict	UNP P52333
A	1040	SER	CYS	conflict	UNP P52333
A	1048	SER	CYS	$\operatorname{conflict}$	UNP P52333
В	810	SER	ı	expression tag	UNP P52333
В	811	MET	-	expression tag	UNP P52333
В	949	ALA	ASP	$\operatorname{conflict}$	UNP P52333
В	1040	SER	CYS	conflict	UNP P52333
В	1048	SER	CYS	conflict	UNP P52333

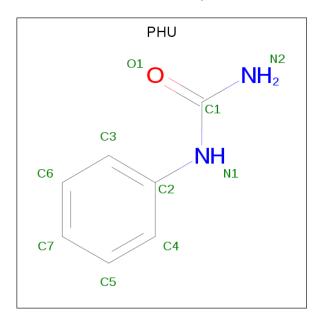
• Molecule 2 is 3-[5-(3-cyclohexyl-3,5,8,10-tetrazatricyclo[7.3.0.0 $^{2}$ ,6]dodeca-1(9),2(6),4,7,1 1-pentaen-4-yl)furan-2-yl]propanenitrile (three-letter code: F48) (formula:  $C_{21}H_{21}N_5O$ ).





Mol	Chain	Residues	${f Atoms}$				ZeroOcc	AltConf
2	A	1	Total 27				0	0
2	В	1	Total 27		N 5	O 1	0	0

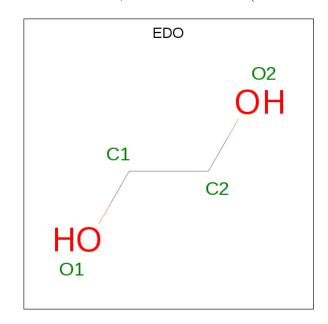
 $\bullet$  Molecule 3 is 1-phenylurea (three-letter code: PHU) (formula:  $\mathrm{C_7H_8N_2O}).$ 



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total 10				0	0
3	В	1	Total 10		N 2	O 1	0	0



 $\bullet$  Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $\mathrm{C_2H_6O_2}).$ 



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	В	1	Total C O 4 2 2	0	0
4	В	1	Total C O 4 2 2	0	0

 $\bullet$  Molecule 5 is water.

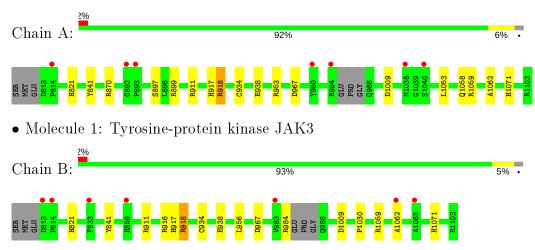
Mol	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
5	A	120	Total O 120 120	0	0
5	В	122	Total O 122 122	0	0



# 3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: Tyrosine-protein kinase JAK3





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	41.85Å 50.31Å 61.59Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$91.74^{\circ}$ $90.28^{\circ}$ $92.76^{\circ}$	Depositor
Resolution (Å)	61.56 - 2.00	Depositor
Resolution (A)	41.80 - 2.00	EDS
% Data completeness	90.9 (61.56-2.00)	Depositor
(in resolution range)	90.9 (41.80-2.00)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.12	Depositor
$< I/\sigma(I) > 1$	2.16 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
D D.	0.233 , 0.290	Depositor
$R, R_{free}$	0.239 , $0.296$	DCC
$R_{free}$ test set	1470 reflections (4.77%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	18.4	Xtriage
Anisotropy	0.245	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.36 , 30.9	EDS
L-test for twinning <sup>2</sup>	$< L >=0.42, < L^2>=0.25$	Xtriage
Estimated twinning fraction	0.298 for -h,-k,l	Xtriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	4932	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.83% 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: F48, EDO, PHU

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	0.71	0/2356	0.85	3/3185 (0.1%)	
1	В	0.74	0/2356	0.84	$2/3185 \ (0.1\%)$	
All	All	0.72	0/4712	0.84	5/6370 (0.1%)	

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^o)$
1	A	1009	ASP	CB-CG-OD1	6.27	123.94	118.30
1	A	953	ARG	NE-CZ-NH1	-5.89	117.35	120.30
1	В	1009	ASP	CB-CG-OD1	5.87	123.59	118.30
1	В	1059	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	A	1059	ARG	NE-CZ-NH1	5.33	122.97	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	2298	0	2279	9	0
1	В	2298	0	2279	8	0
2	A	27	0	0	0	0
2	В	27	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	10	0	8	0	0
3	В	10	0	8	0	0
4	A	12	0	18	0	0
4	В	8	0	12	0	0
5	A	120	0	0	2	0
5	В	122	0	0	3	0
All	All	4932	0	4604	17	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.

All (17) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{array}{l}  ext{Interatomic} \  ext{distance} \ ( ext{Å}) \end{array}$	Clash overlap (Å)
1:B:984:ARG:NH1	5:B:1301:HOH:O	2.21	0.73
1:B:911:ARG:NH2	5:B:1302:HOH:O	2.25	0.55
1:A:1053:LEU:HD22	1:A:1058:GLN:HG3	1.93	0.51
1:B:1062:ALA:HB2	1:B:1071:HIS:CE1	2.49	0.48
1:A:1062:ALA:HB2	1:A:1071:HIS:CD2	2.50	0.47
1:B:821:HIS:HB2	1:B:841:TYR:CE1	2.52	0.44
1:B:934:CYS:O	1:B:938:GLU:HG3	2.18	0.44
1:A:870[B]:ARG:HD2	5:A:1312:HOH:O	2.18	0.43
1:B:917:HIS:O	1:B:918:ARG:C	2.57	0.43
1:B:956:LEU:HD11	2:B:1201:F48:C2	2.50	0.42
1:A:917:HIS:O	1:A:918:ARG:C	2.58	0.42
1:B:916:ARG:NH1	5:B:1305:HOH:O	2.45	0.41
1:A:1062:ALA:HB2	1:A:1071:HIS:CE1	2.56	0.41
1:A:911:ARG:NH2	5:A:1302:HOH:O	2.39	0.41
1:A:821:HIS:HB2	1:A:841:TYR:CE1	2.56	0.41
1:A:897:SER:O	1:A:899:ARG:NH1	2.54	0.41
1:A:934:CYS:O	1:A:938:GLU:HG3	2.21	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	${f Analysed}$	Favoured	Allowed	Outliers	Percentiles	
1	A	285/294~(97%)	277 (97%)	6 (2%)	2 (1%)	22 16	
1	В	285/294~(97%)	278 (98%)	5 (2%)	2 (1%)	22 16	
All	All	570/588 (97%)	555 (97%)	11 (2%)	4 (1%)	22 16	

#### All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	967	ASP
1	В	918	ARG
1	В	967	ASP
1	A	918	ARG

#### 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	${f Analysed}$	${f Rotameric}$	Outliers	Perce	entiles
1	A	$249/256 \ (97\%)$	249 (100%)	0	100	100
1	В	$249/256 \ (97\%)$	248 (100%)	1 (0%)	91	93
All	All	498/512 (97%)	497 (100%)	1 (0%)	93	95

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Chain Res	
1	В	1030	PRO

Some 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 carbohydrates in this entry.

### 5.6 Ligand geometry (i)

9 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	Mol Type Chain Re		Res	Link	В	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	Link	Counts	RMSZ	# Z >2	Counts	RMSZ	$\mid \# Z  > 2 \mid$	
4	EDO	В	1204	-	3,3,3	0.38	0	2,2,2	0.38	0	
3	PHU	A	1202	-	10,10,10	0.36	0	12,12,12	0.34	0	
4	EDO	A	1205	-	3,3,3	0.49	0	2,2,2	0.28	0	
2	F48	A	1201	-	22,31,31	5.33	11 (50%)	20,44,44	2.96	7 (35%)	
2	F48	В	1201	-	22,31,31	5.36	11 (50%)	20,44,44	3.06	6 (30%)	
4	EDO	A	1204	-	3,3,3	0.39	0	2,2,2	0.52	0	
4	EDO	В	1203	-	3,3,3	0.43	0	2,2,2	0.48	0	
4	EDO	A	1203	-	3,3,3	0.45	0	2,2,2	0.31	0	
3	PHU	В	1202	-	10,10,10	0.59	0	12,12,12	0.37	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	$\mathbf{Rings}$
4	EDO	В	1204	_	-	1/1/1/1	-
3	PHU	A	1202	_	-	0/4/4/4	0/1/1/1
4	EDO	A	1205	-	-	1/1/1/1	-
2	F48	A	1201	-	-	1/7/20/20	0/5/5/5
2	F48	В	1201	_	-	0/7/20/20	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	EDO	A	1204	-	-	1/1/1/1	-
4	EDO	В	1203	-	-	1/1/1/1	-
4	EDO	A	1203	-	-	1/1/1/1	-
3	PHU	В	1202	-	-	0/4/4/4	0/1/1/1

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}( ext{\AA})$
2	В	1201	F48	C4-C	-13.55	1.39	1.52
2	A	1201	F48	C4-C	-13.33	1.39	1.52
2	A	1201	F48	C5-C6	-10.93	1.36	1.53
2	В	1201	F48	C5-C6	-10.74	1.36	1.53
2	A	1201	F48	C2-C1	-9.58	1.41	1.54
2	В	1201	F48	C2-C1	-9.22	1.42	1.54
2	В	1201	F48	C4-N	-9.19	1.34	1.47
2	A	1201	F48	C4-N	-8.97	1.34	1.47
2	В	1201	F48	C7-N2	-7.58	1.37	1.47
2	A	1201	F48	C7-N2	-7.46	1.38	1.47
2	В	1201	F48	C-N3	-6.01	1.39	1.48
2	A	1201	F48	C-N3	-5.93	1.39	1.48
2	A	1201	F48	C8-C7	-4.49	1.45	1.53
2	В	1201	F48	C8-C7	-4.38	1.45	1.53
2	A	1201	F48	C5-C2	-4.04	1.43	1.54
2	В	1201	F48	C5-C2	-3.92	1.43	1.54
2	В	1201	F48	C10-C11	-3.78	1.34	1.39
2	В	1201	F48	C9-C8	-3.40	1.34	1.39
2	A	1201	F48	C6-N1	-3.14	1.37	1.49
2	В	1201	F48	C6-N1	-3.10	1.37	1.49
2	A	1201	F48	C10-C11	-3.02	1.35	1.39
2	A	1201	F48	C9-C8	-2.91	1.35	1.39

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	1201	F48	C1-C-N3	8.71	112.45	102.24
2	A	1201	F48	C1-C-N3	7.85	111.44	102.24
2	В	1201	F48	C2-C3-N	6.33	127.21	111.22
2	A	1201	F48	C2-C3-N	6.25	127.00	111.22
2	A	1201	F48	C-C4-N	5.40	123.00	112.33
2	В	1201	F48	C-C4-N	5.34	122.88	112.33
2	В	1201	F48	C6-N1-C3	4.01	110.18	105.33
2	A	1201	F48	C6-N1-C3	3.96	110.11	105.33

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Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	1201	F48	N3-C7-N2	3.70	113.19	104.60
2	A	1201	F48	N3-C7-N2	3.68	113.14	104.60
2	В	1201	F48	C6-C5-C2	2.41	106.66	104.03
2	A	1201	F48	C6-C5-C2	2.40	106.64	104.03
2	A	1201	F48	C12-C11-C10	2.28	137.18	129.08

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1201	F48	C11-C12-C13-C14
4	В	1203	EDO	O1-C1-C2-O2
4	В	1204	EDO	O1-C1-C2-O2
4	A	1205	EDO	O1-C1-C2-O2
4	A	1204	EDO	O1-C1-C2-O2
4	A	1203	EDO	O1-C1-C2-O2

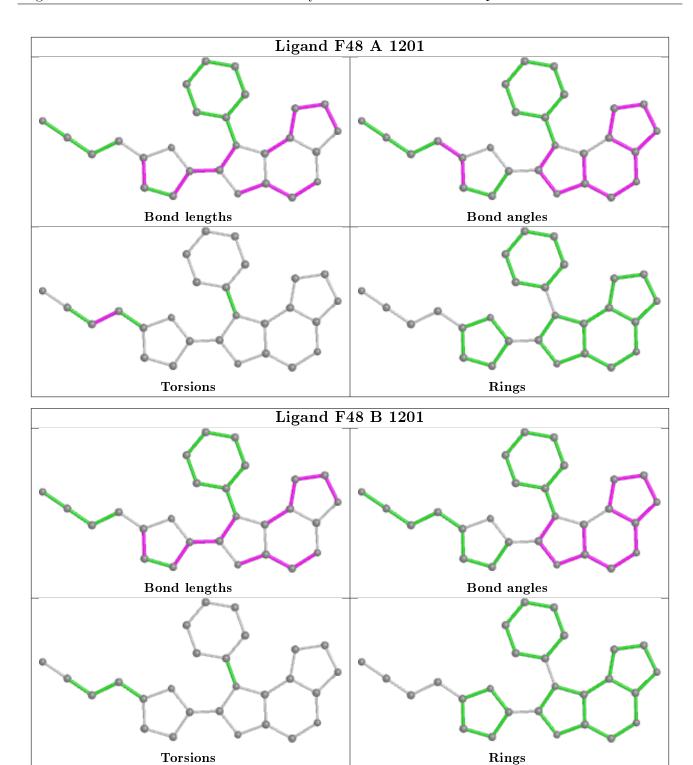
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	1201	F48	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.





#### Other polymers (i) 5.7

There are no such residues in this entry.

Torsions



## 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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q<0.9
1	A	288/294 (97%)	-0.02	7 (2%) 59 57	9, 22, 42, 59	0
1	В	288/294 (97%)	-0.09	7 (2%) 59 57	9, 20, 43, 54	0
All	All	576/588 (97%)	-0.06	14 (2%) 59 57	9, 21, 42, 59	0

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	813	ASP	4.8
1	A	892	GLY	4.3
1	A	1038	MET	4.1
1	A	1040	SER	3.1
1	В	859	HIS	3.0
1	В	814	PRO	2.9
1	A	984	ARG	2.6
1	В	833	PHE	2.6
1	A	980	TYR	2.4
1	В	1062	ALA	2.3
1	A	893	PRO	2.2
1	В	1065	ALA	2.1
1	A	814	PRO	2.1
1	В	983	VAL	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 carbohydrates in this entry.

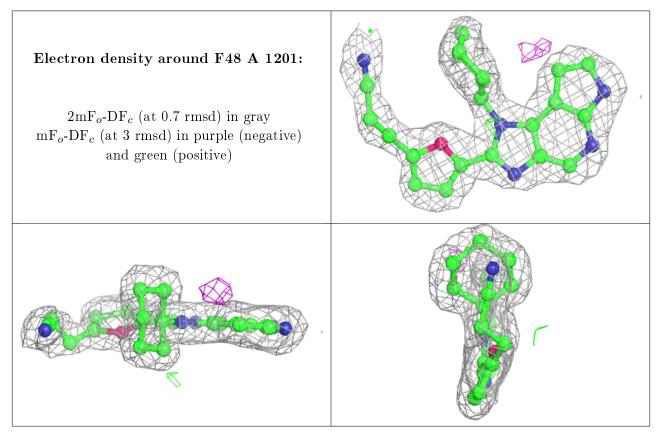


## 6.4 Ligands (i)

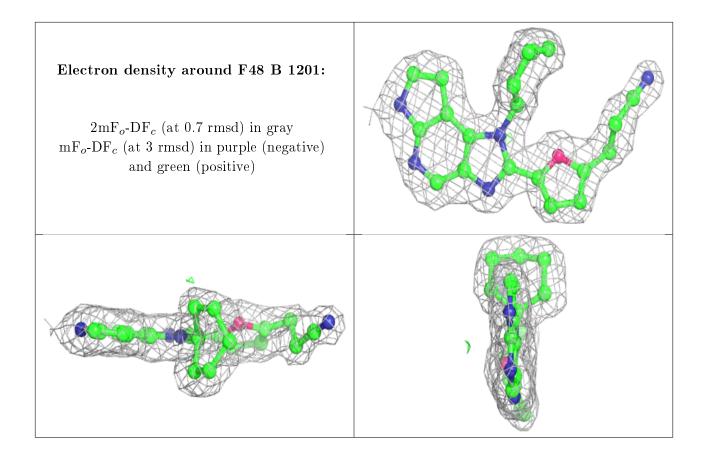
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
4	EDO	A	1205	4/4	0.86	0.14	34,35,35,36	0
4	EDO	В	1203	4/4	0.87	0.14	34,34,35,35	0
4	EDO	В	1204	4/4	0.89	0.15	26,26,27,28	0
4	EDO	A	1203	4/4	0.91	0.13	39,39,39,39	0
3	PHU	A	1202	10/10	0.93	0.11	13,17,18,18	0
2	F48	A	1201	27/27	0.93	0.14	15,16,27,31	0
3	PHU	В	1202	10/10	0.93	0.14	10,13,15,15	0
4	EDO	A	1204	4/4	0.94	0.10	29,29,30,31	0
2	F48	В	1201	27/27	0.95	0.11	13,14,25,29	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.

