

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

Mar 3, 2024 – 05:40 PM EST

PDB ID : 6D3M

Title: FT T dioxygenase with bound quizalofop

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Deposited on : 2018-04-16

Resolution : 2.03 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)

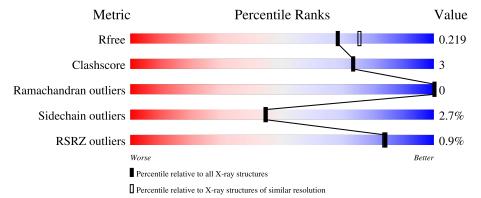
Validation Pipeline (wwPDB-VP) : 2.36

# 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.03 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
$R_{free}$	130704	10434 (2.04-2.00)
Clashscore	141614	11643 (2.04-2.00)
Ramachandran outliers	138981	11493 (2.04-2.00)
Sidechain outliers	138945	11492 (2.04-2.00)
RSRZ outliers	127900	10220 (2.04-2.00)

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 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	295	89%	7% • •
1	В	295	<b>%</b> 87%	8% • •
1	F	295	86%	9% • •
1	J	295	<b>85</b> %	10% • •



# 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 10080 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 FT T dioxygenase.

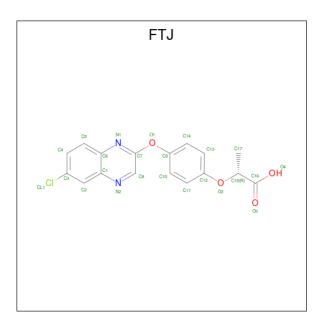
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	286	Total	С	N	О	S	0	2	0
1	A	200	2300	1461	396	432	11	0	2	
1	В	285	Total	С	N	О	S	0	3	0
1	I B	200	2295	1460	392	432	11	U		0
1	F	286	Total	С	N	О	S	0	1	
1	Г	Г 200	2292	1457	394	430	11	U	1	
1	1 J	286	Total	С	N	О	S	0	1	0
1		286	2292	1457	394	430	11	U	1	U

• Molecule 2 is COBALT (II) ION (three-letter code: CO) (formula: Co).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Co 1 1	0	0
2	В	1	Total Co 1 1	0	0
2	F	1	Total Co 1 1	0	0
2	J	1	Total Co 1 1	0	0

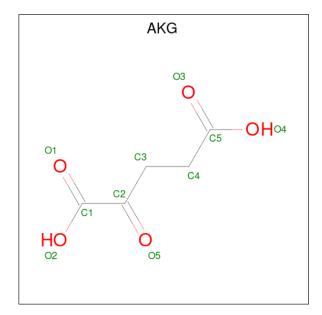
• Molecule 3 is (2R)-2-{4-[(6-chloroquinoxalin-2-yl)oxy]phenoxy}propanoic acid (three-letter code: FTJ) (formula: C<sub>17</sub>H<sub>13</sub>ClN<sub>2</sub>O<sub>4</sub>).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
3	Λ	1	Total	С	Cl	N	О	0	0
3	A	1	24	17	1	2	4	U	0
3	В	1	Total	С	Cl	N	О	0	0
3	Б	1	24	17	1	2	4	U	
3	F	1	Total	С	Cl	N	О	0	0
3	I'	1	24	17	1	2	4	U	0
3	о т	1	Total	С	Cl	N	О	0	0
3	J	1	24	17	1	2	4	U	0

 $\bullet$  Molecule 4 is 2-OXOGLUTARIC ACID (three-letter code: AKG) (formula:  $\mathrm{C}_5\mathrm{H}_6\mathrm{O}_5).$ 





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 10 5 5	0	0
4	В	1	Total C O 10 5 5	0	0
4	F	1	Total C O 10 5 5	0	0
4	J	1	Total C O 10 5 5	0	0

• Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Cl 1 1	0	0
5	F	1	Total Cl 1 1	0	0

#### • Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	206	Total O 206 206	0	0
6	В	177	Total O 177 177	0	0
6	F	186	Total O 186 186	0	0
6	J	190	Total O 190 190	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: FT\_T dioxygenase Chain A: 89% • Molecule 1: FT T dioxygenase Chain B: • Molecule 1: FT\_T dioxygenase Chain F: 86% • Molecule 1: FT T dioxygenase Chain J: 85% 10%



# 4 Data and refinement statistics (i)

Property	Value	Source	
Space group	P 64	Depositor	
Cell constants	137.78Å 137.78Å 148.35Å	Depositor	
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $120.00^{\circ}$	Depositor	
Resolution (Å)	45.10 - 2.03	Depositor	
Resolution (A)	45.10 - 2.03	EDS	
% Data completeness	99.2 (45.10-2.03)	Depositor	
(in resolution range)	99.2 (45.10-2.03)	EDS	
$R_{merge}$	(Not available)	Depositor	
$R_{sym}$	0.15	Depositor	
$< I/\sigma(I) > 1$	1.63 (at 2.03Å)	Xtriage	
Refinement program	REFMAC 5.5.0102	Depositor	
Ρ. Р.	0.177 , 0.217	Depositor	
$R, R_{free}$	0.180 , $0.219$	DCC	
$R_{free}$ test set	5110 reflections (4.99%)	wwPDB-VP	
Wilson B-factor (Å <sup>2</sup> )	35.5	Xtriage	
Anisotropy	0.034	Xtriage	
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.36, 34.2	EDS	
L-test for twinning <sup>2</sup>	$< L > = 0.51, < L^2> = 0.35$	Xtriage	
Estimated twinning fraction	0.469 for h,-h-k,-l	Xtriage	
$F_o, F_c$ correlation	0.97	EDS	
Total number of atoms	10080	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 46.74 % 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 1.0964e-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: CO, FTJ, CL, AKG

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	Во	nd lengths	Bond angles		
MIOI		RMSZ	# Z  > 5	RMSZ	# Z >5	
1	A	1.09	0/2363	0.95	$6/3217 \; (0.2\%)$	
1	В	1.10	4/2364~(0.2%)	0.95	9/3218 (0.3%)	
1	F	1.11	3/2355~(0.1%)	0.95	$7/3206 \; (0.2\%)$	
1	J	1.11	4/2355~(0.2%)	0.98	11/3206 (0.3%)	
All	All	1.10	11/9437 (0.1%)	0.96	33/12847 (0.3%)	

The worst 5 of 11 bond length outliers are listed below:

Mol	Chain	$\operatorname{Res}$	Type	Atoms	$\mathbf{Z}$	Observed(A)	$\operatorname{Ideal}( ext{\AA})$
1	F	122	ALA	CA-CB	7.00	1.67	1.52
1	J	44	GLU	CB-CG	6.25	1.64	1.52
1	J	23	VAL	CB-CG2	5.67	1.64	1.52
1	В	123	ALA	CA-CB	5.64	1.64	1.52
1	F	133	GLU	CG-CD	5.48	1.60	1.51

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

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
1	J	212	ARG	NE-CZ-NH1	9.31	124.95	120.30
1	В	212	ARG	NE-CZ-NH1	8.43	124.52	120.30
1	F	212	ARG	NE-CZ-NH2	-7.88	116.36	120.30
1	F	212	ARG	NE-CZ-NH1	7.85	124.23	120.30
1	A	125	VAL	CG1-CB-CG2	7.56	123.00	110.90

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	2300	0	2229	12	0
1	В	2295	0	2228	12	0
1	F	2292	0	2224	23	0
1	J	2292	0	2224	15	0
2	A	1	0	0	0	0
2	В	1	0	0	0	0
2	F	1	0	0	0	0
2	J	1	0	0	0	0
3	A	24	0	0	0	0
3	В	24	0	0	0	0
3	F	24	0	0	0	0
3	J	24	0	0	0	0
4	A	10	0	4	0	0
4	В	10	0	4	0	0
4	F	10	0	4	0	0
4	J	10	0	4	0	0
5	A	1	0	0	0	0
5	F	1	0	0	0	0
6	A	206	0	0	2	0
6	В	177	0	0	2	0
6	F	186	0	0	5	0
6	J	190	0	0	4	0
All	All	10080	0	8921	61	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 61 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:B:91:GLU:HG2	6:B:478:HOH:O	1.36	1.21
1:J:91:GLU:HG2	6:J:498:HOH:O	1.52	1.07
1:B:181:ARG:HG2	1:B:181:ARG:HH11	1.22	1.02
1:F:181:ARG:HG2	1:F:181:ARG:HH11	1.29	0.97
1:F:127:ARG:HD2	6:F:401:HOH:O	1.65	0.96



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	Percentile	$\mathbf{s}$
1	A	286/295~(97%)	278 (97%)	8 (3%)	0	100 100	
1	В	286/295~(97%)	280 (98%)	6 (2%)	0	100 100	
1	F	285/295 (97%)	280 (98%)	5 (2%)	0	100 100	
1	J	285/295~(97%)	278 (98%)	7 (2%)	0	100 100	
All	All	1142/1180 (97%)	1116 (98%)	26 (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	$251/256\ (98\%)$	245 (98%)	6 (2%)	49 49
1	В	$251/256\ (98\%)$	243 (97%)	8 (3%)	39 37
1	F	$250/256\ (98\%)$	244 (98%)	6 (2%)	49 49
1	J	$250/256\ (98\%)$	242 (97%)	8 (3%)	39 37
All	All	$1002/1024\ (98\%)$	974 (97%)	28 (3%)	44 43

5 of 28 residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	F	10	ASN
1	J	295	ARG
1	F	73	ARG
1	J	235	SER
1	F	17	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 23 such sidechains are listed below:

Mol	Chain	Res	Type
1	F	176	GLN
1	J	18	GLN
1	F	238	GLN
1	J	50	HIS
1	В	50	HIS

#### 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, 6 are monoatomic - leaving 8 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	Tuna	Chain	Res	Link	Вс	ond leng	ths	Bond angles		
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	AKG	В	303	2	9,9,9	2.03	2 (22%)	11,11,11	1.77	4 (36%)
4	AKG	A	303	2	9,9,9	2.10	1 (11%)	11,11,11	1.75	4 (36%)
4	AKG	J	303	2	9,9,9	1.77	1 (11%)	11,11,11	2.23	6 (54%)
3	FTJ	A	302	-	26,26,26	1.53	4 (15%)	36,36,36	1.85	5 (13%)
4	AKG	F	303	2	9,9,9	2.19	3 (33%)	11,11,11	1.63	3 (27%)
3	FTJ	F	302	-	26,26,26	1.46	3 (11%)	36,36,36	2.33	10 (27%)
3	FTJ	J	302	-	26,26,26	1.57	5 (19%)	36,36,36	1.91	7 (19%)
3	FTJ	В	302	-	26,26,26	1.36	3 (11%)	36,36,36	2.00	7 (19%)

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
4	AKG	В	303	2	-	1/9/9/9	-
4	AKG	A	303	2	-	1/9/9/9	-
4	AKG	J	303	2	-	3/9/9/9	-
3	FTJ	A	302	-	-	8/12/12/12	0/3/3/3
4	AKG	F	303	2	-	1/9/9/9	-
3	FTJ	F	302	-	-	8/12/12/12	0/3/3/3
3	FTJ	J	302	-	-	8/12/12/12	0/3/3/3
3	FTJ	В	302	-	-	8/12/12/12	0/3/3/3

The worst 5 of 22 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	Ideal(A)
4	A	303	AKG	C2-C1	-5.34	1.46	1.53
4	В	303	AKG	C2-C1	-5.27	1.46	1.53
4	F	303	AKG	C2-C1	-5.22	1.46	1.53
4	J	303	AKG	C2-C1	-4.61	1.47	1.53
3	F	302	FTJ	C7-N1	4.34	1.36	1.30

The worst 5 of 46 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(^{o})$	$\operatorname{Ideal}({}^o)$
3	F	302	FTJ	C7-C8-N2	-9.41	116.17	121.86
3	A	302	FTJ	C7-C8-N2	-7.88	117.09	121.86
3	В	302	FTJ	C7-C8-N2	-7.66	117.23	121.86

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Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(^{o})$	$\operatorname{Ideal}({}^o)$
3	J	302	FTJ	C7-C8-N2	-6.89	117.69	121.86
3	В	302	FTJ	C9-O1-C7	4.70	130.10	118.83

There are no chirality outliers.

5 of 38 torsion outliers are listed below:

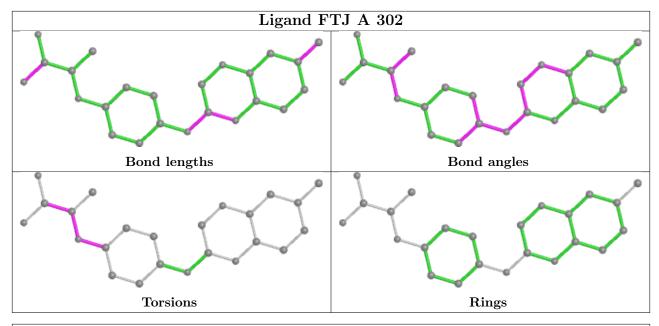
Mol	Chain	Res	Type	Atoms
3	A	302	FTJ	O2-C15-C16-O4
3	В	302	FTJ	O2-C15-C16-O4
3	В	302	FTJ	O2-C15-C16-O3
3	В	302	FTJ	C17-C15-C16-O4
3	В	302	FTJ	C17-C15-C16-O3

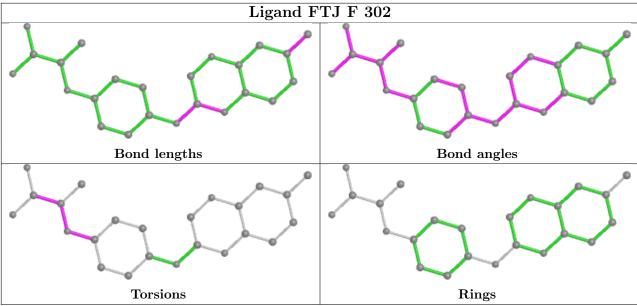
There are no ring outliers.

No monomer is involved in short contacts.

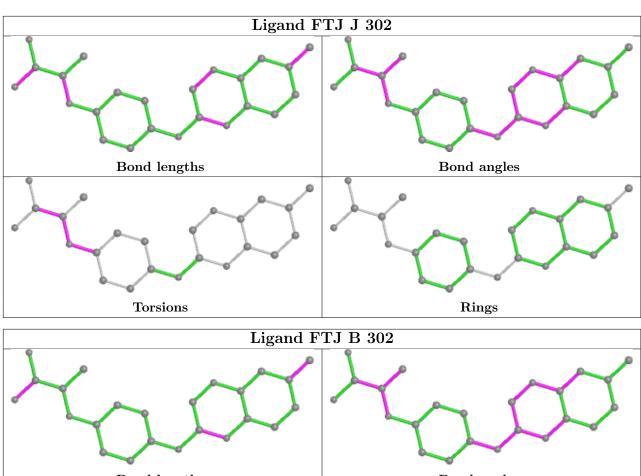
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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











# Bond lengths Bond angles Torsions Rings

#### 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>	# RSRZ > 2	$OWAB(A^2)$	Q<0.9
1	A	286/295 (96%)	-0.22	3 (1%) 82 82	27, 35, 49, 77	0
1	В	285/295~(96%)	-0.23	2 (0%) 87 87	27, 35, 51, 78	0
1	F	286/295 (96%)	-0.21	3 (1%) 82 82	27, 35, 49, 77	0
1	J	286/295 (96%)	-0.23	2 (0%) 87 87	28, 35, 51, 78	0
All	All	1143/1180 (96%)	-0.22	10 (0%) 84 83	27, 35, 51, 78	0

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	J	180	TRP	4.9
1	В	180	TRP	3.5
1	A	179	ASN	3.4
1	В	179	ASN	3.3
1	A	180	TRP	3.3

#### 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.

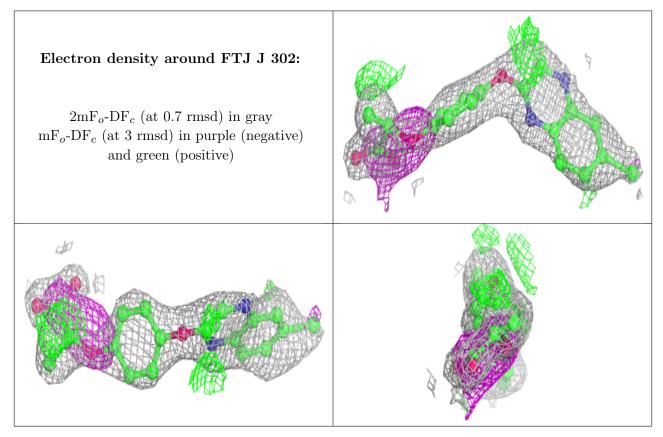
#### 6.4 Ligands (i)

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	FTJ	J	302	24/24	0.81	0.24	42,58,79,90	0
3	FTJ	В	302	24/24	0.84	0.23	39,58,84,93	0
3	FTJ	A	302	24/24	0.89	0.24	38,51,72,87	0
3	FTJ	F	302	24/24	0.92	0.23	37,48,69,84	0
4	AKG	В	303	10/10	0.98	0.10	33,34,38,39	0
4	AKG	J	303	10/10	0.98	0.12	34,37,40,40	0
4	AKG	F	303	10/10	0.99	0.10	28,32,34,34	0
4	AKG	A	303	10/10	0.99	0.09	29,32,35,36	0
5	$\operatorname{CL}$	A	304	1/1	0.99	0.08	35,35,35,35	0
5	CL	F	304	1/1	0.99	0.09	34,34,34,34	0
2	CO	F	301	1/1	1.00	0.17	30,30,30,30	0
2	CO	J	301	1/1	1.00	0.15	32,32,32,32	0
2	CO	A	301	1/1	1.00	0.14	30,30,30,30	0
2	CO	В	301	1/1	1.00	0.18	32,32,32,32	0

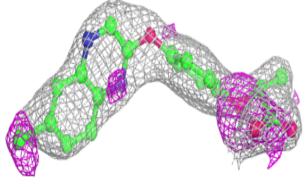
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

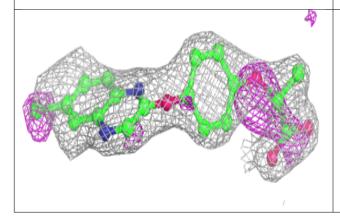


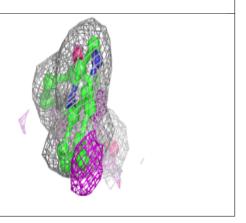


# Electron density around FTJ B 302: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${ m mF}_o{ m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive) Electron density around FTJ A 302: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $mF_o$ -DF<sub>c</sub> (at 3 rmsd) in purple (negative)

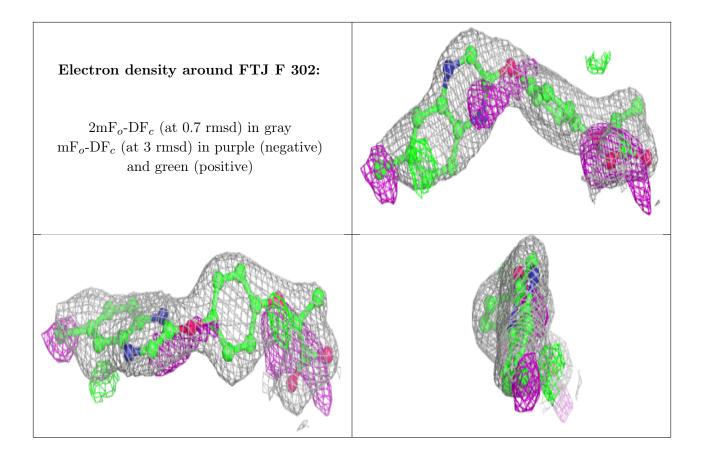
and green (positive)











# 6.5 Other polymers (i)

There are no such residues in this entry.

