

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

#### Mar 3, 2025 - 09:12 am GMT

PDB ID	:	9FJ1
Title	:	Structure of the F13 protein of Vaccinia virus in complex with IMCBH
Authors	:	Vernuccio, R.; Guardado-Calvo, P.
Deposited on		
Resolution	:	3.80  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:

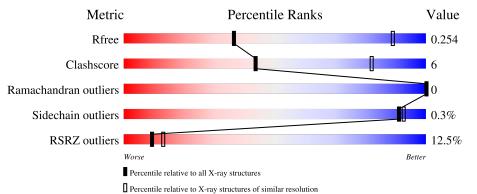
	Xtriage (Phenix) EDS buster-report Percentile statistics CCP4 Density-Fitness Ideal geometry (proteins)	::	1.8.4, CSD as541be (2020) 1.13 3.0 1.1.7 (2018) 20231227.v01 (using entries in the PDB archive December 27th 2023) 9.0.003 (Gargrove) 1.0.11 Engh & Huber (2001)
•	Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)	:	Parkinson et al. (1996)

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 3.80 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	164625	1025 (3.98-3.62)
Clashscore	180529	1005 (3.96-3.64)
Ramachandran outliers	177936	1044 (3.98-3.62)
Sidechain outliers	177891	1039 (3.98-3.62)
RSRZ outliers	164620	1025 (3.98-3.62)

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		
		2.0.0	12%		
1	А	399	76%	16%	8%



# 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 2929 atoms, of which 0 are hydrogens and 0 are deuteriums.

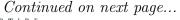
In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

• Molecule 1 is a protein called Envelope phospholipase OPG057.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	А	367	Total 2884	C 1833	N 491	O 550	S 10	0	0	0

Chain	Residue	Modelled	Actual	Comment	Reference
А	-26	HIS	-	expression tag	UNP P04021
А	-25	HIS	_	expression tag	UNP P04021
А	-24	HIS	-	expression tag	UNP P04021
А	-23	HIS	-	expression tag	UNP P04021
А	-22	HIS	-	expression tag	UNP P04021
А	-21	HIS	-	expression tag	UNP P04021
А	-20	HIS	-	expression tag	UNP P04021
А	-19	HIS	-	expression tag	UNP P04021
А	-18	GLY	-	expression tag	UNP P04021
А	-17	SER	-	expression tag	UNP P04021
А	-16	GLY	-	expression tag	UNP P04021
А	-15	ALA	-	expression tag	UNP P04021
A	-14	GLY	-	expression tag	UNP P04021
А	-13	TRP	-	expression tag	UNP P04021
A	-12	SER	-	expression tag	UNP P04021
A	-11	HIS	-	expression tag	UNP P04021
А	-10	PRO	-	expression tag	UNP P04021
А	-9	GLN	-	expression tag	UNP P04021
А	-8	PHE	-	expression tag	UNP P04021
A	-7	GLU	-	expression tag	UNP P04021
А	-6	LYS	-	expression tag	UNP P04021
А	-5	GLY	-	expression tag	UNP P04021
А	-4	GLY	-	expression tag	UNP P04021
А	-3	SER	-	expression tag	UNP P04021
А	-2	GLY	-	expression tag	UNP P04021
А	-1	LEU	-	expression tag	UNP P04021
А	0	VAL	-	expression tag	UNP P04021

There are 37 discrepancies between the modelled and reference sequences:

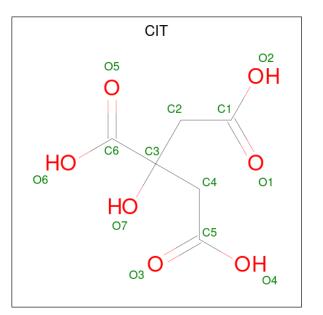




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Chain	Residue	Modelled	Actual	Comment	Reference			
А	1	PRO	-	expression tag	UNP P04021			
А	2	ARG	-	expression tag	UNP P04021			
А	3	GLY	-	expression tag	UNP P04021			
А	4	SER	-	expression tag	UNP P04021			
А	5	GLY	ALA	conflict	UNP P04021			
А	177	ALA	TRP	conflict	UNP P04021			
А	178	ALA	LEU	conflict	UNP P04021			
А	181	ALA	CYS	conflict	UNP P04021			
А	185	ALA	CYS	conflict	UNP P04021			
А	186	ALA	CYS	conflict	UNP P04021			

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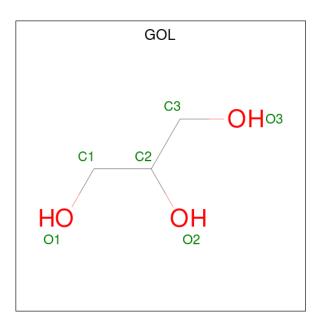
• Molecule 2 is CITRIC ACID (three-letter code: CIT) (formula:  $C_6H_8O_7$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	А	1	Total 13	С 6	O 7	0	0

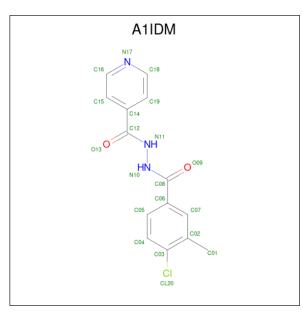
• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{O} \\ 6  3  3 \end{array}$	0	0

• Molecule 4 is {N}'-(4-chloranyl-3-methyl-phenyl)carbonylpyridine-4-carbohydrazid e (three-letter code: A1IDM) (formula:  $C_{14}H_{12}ClN_3O_2$ ) (labeled as "Ligand of Interest" by depositor).

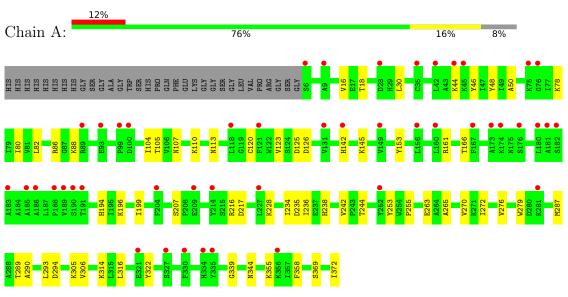


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
4	А	1	Total 20	C 14	Cl 1	N 3	0 2	0	0



# 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: Envelope phospholipase OPG057



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	F 4 3 2	Depositor
Cell constants	282.81Å 282.81Å 282.81Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	47.13 - 3.80	Depositor
Resolution (A)	47.13 - 3.80	EDS
% Data completeness	99.5 (47.13-3.80)	Depositor
(in resolution range)	99.8 (47.13-3.80)	EDS
R <sub>merge</sub>	(Not available)	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.02 (at 3.77 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.21_5207	Depositor
D D	0.208 , $0.247$	Depositor
$R, R_{free}$	0.210 , $0.254$	DCC
$R_{free}$ test set	503 reflections $(5.02%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	153.2	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.34, 165.5	EDS
L-test for twinning <sup>2</sup>	$ \langle L  \rangle = 0.45, \langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.88	EDS
Total number of atoms	2929	wwPDB-VP
Average B, all atoms $(Å^2)$	161.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.31% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  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: GOL, A11DM, CIT

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		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.24	0/2943	0.46	0/3990	

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)	H(added)	Clashes	Symm-Clashes
1	А	2884	0	2868	35	0
2	А	13	0	5	0	0
3	А	12	0	16	1	0
4	А	20	0	0	0	0
All	All	2929	0	2889	35	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 6.

All (35) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



Atom-1	Atom-2	Interatomic	Clash
1100111-1		distance (Å)	overlap (Å)
1:A:18:THR:O	1:A:145:LYS:HA	1.87	0.75
1:A:235:ASP:OD2	1:A:355:LYS:NZ	2.27	0.62
1:A:50:ALA:O	1:A:120:CYS:N	2.33	0.62
1:A:46:TYR:OH	1:A:126:ASP:OD1	2.19	0.60
1:A:234:ILE:HB	1:A:272:ILE:HG12	1.86	0.57
1:A:153:TYR:HE2	1:A:199:ILE:HD11	1.70	0.56
1:A:78:LYS:HE2	1:A:80:ILE:HD11	1.88	0.54
1:A:265:ALA:HB2	1:A:272:ILE:HD12	1.90	0.54
1:A:88:LYS:HE3	1:A:105:THR:HG21	1.90	0.53
1:A:16:VAL:HG22	1:A:30:LEU:HB3	1.90	0.53
1:A:194:HIS:CE1	1:A:196:LYS:HB2	2.45	0.52
1:A:228:LYS:NZ	1:A:263:GLU:OE1	2.44	0.51
1:A:238:HIS:CE1	1:A:314:LYS:HB3	2.47	0.49
1:A:242:VAL:HG12	1:A:244:THR:H	1.77	0.49
1:A:276:VAL:O	1:A:306:VAL:HA	2.12	0.49
1:A:279:TRP:HZ3	1:A:306:VAL:HG11	1.78	0.47
1:A:207:SER:O	1:A:339:GLY:HA2	2.14	0.47
1:A:123:VAL:HG21	1:A:161:ARG:HB2	1.96	0.47
1:A:166:THR:OG1	1:A:216:ARG:NH2	2.48	0.46
1:A:107:ASN:ND2	1:A:110:LYS:HG2	2.31	0.45
1:A:194:HIS:HB2	1:A:217:ASP:OD2	2.17	0.44
1:A:236:ILE:HG12	1:A:316:LEU:HD13	1.99	0.44
1:A:253:TYR:CZ	1:A:255:PRO:HG3	2.52	0.44
1:A:279:TRP:NE1	1:A:287:MET:SD	2.72	0.44
1:A:48:TYR:HB2	1:A:123:VAL:HG13	2.00	0.43
1:A:294:ASP:HB2	1:A:372:ILE:HD12	2.00	0.43
1:A:289:THR:O	1:A:293:LEU:HG	2.18	0.43
1:A:44:LYS:N	1:A:125:ASP:OD2	2.43	0.43
1:A:86:ARG:NH2	1:A:113:ASN:O	2.52	0.42
1:A:290:ALA:HB2	3:A:404:GOL:H32	2.01	0.42
1:A:322:TYR:OH	1:A:344:ASN:OD1	2.35	0.42
1:A:234:ILE:HG13	1:A:270:VAL:HG11	2.02	0.41
1:A:82:LEU:HD23	1:A:104:ILE:HB	2.03	0.41
1:A:305:LYS:HG2	1:A:369:SER:HA	2.03	0.41
1:A:235:ASP:HB3	1:A:358:PHE:CE2	2.56	0.41

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	Percentiles
1	А	365/399~(92%)	349~(96%)	16 (4%)	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	Rotameric Outliers	
1	А	321/344~(93%)	320 (100%)	1 (0%)	91 92

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

Mol	Chain	Res	Type
1	А	142	HIS

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 oligosaccharides 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	Turne	Chain	Chain Res Link Bond lengths		Bond angles					
NIOI	Type	Unam	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
4	A1IDM	А	403	-	21,21,21	2.52	6 (28%)	28,28,28	1.40	3 (10%)
2	CIT	А	401	-	12,12,12	1.34	1 (8%)	$17,\!17,\!17$	1.72	3 (17%)
3	GOL	А	402	-	$5,\!5,\!5$	0.34	0	$5,\!5,\!5$	0.36	0
3	GOL	А	404	-	$5,\!5,\!5$	0.33	0	$5,\!5,\!5$	0.40	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	Rings
4	A1IDM	А	403	-	-	4/13/13/13	0/2/2/2
2	CIT	А	401	-	-	11/16/16/16	-
3	GOL	А	402	-	-	0/4/4/4	-
3	GOL	А	404	-	-	0/4/4/4	-

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	А	403	A1IDM	C12-N11	7.36	1.45	1.35
4	А	403	A1IDM	C08-N10	7.36	1.45	1.35
2	А	401	CIT	C3-C6	3.00	1.56	1.53
4	А	403	A1IDM	O13-C12	-2.30	1.18	1.23
4	А	403	A1IDM	O09-C08	-2.18	1.18	1.23
4	А	403	A1IDM	C03-CL20	2.18	1.78	1.73
4	А	403	A1IDM	N11-N10	2.08	1.41	1.39



Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	401	CIT	O5-C6-C3	-4.64	115.68	122.25
4	А	403	A1IDM	C14-C12-N11	4.14	120.78	116.01
4	А	403	A1IDM	C07-C02-C03	3.32	120.13	116.79
2	А	401	CIT	O6-C6-C3	2.93	118.14	113.05
2	А	401	CIT	O7-C3-C6	2.39	112.22	108.86
4	А	403	A1IDM	C06-C08-N10	2.32	118.69	116.01

All (6) bond angle outliers are listed below:

There are no chirality outliers.

Mol	Chain	$\mathbf{Res}$	Type	Atoms
2	А	401	CIT	C1-C2-C3-O7
2	А	401	CIT	C1-C2-C3-C4
2	А	401	CIT	C1-C2-C3-C6
2	А	401	CIT	C2-C3-C4-C5
2	А	401	CIT	C2-C3-C6-O5
2	А	401	CIT	C2-C3-C6-O6
2	А	401	CIT	O7-C3-C6-O5
2	А	401	CIT	O7-C3-C6-O6
4	А	403	A1IDM	N11-C12-C14-C15
4	А	403	A1IDM	O13-C12-C14-C15
4	А	403	A1IDM	O13-C12-C14-C19
4	А	403	A1IDM	N11-C12-C14-C19
2	А	401	CIT	C6-C3-C4-C5
2	А	401	CIT	O7-C3-C4-C5
2	А	401	CIT	C4-C3-C6-O6

All (15) torsion outliers are listed below:

There are no ring outliers.

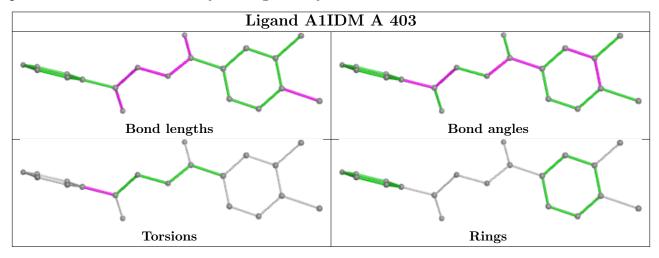
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	404	GOL	1	0

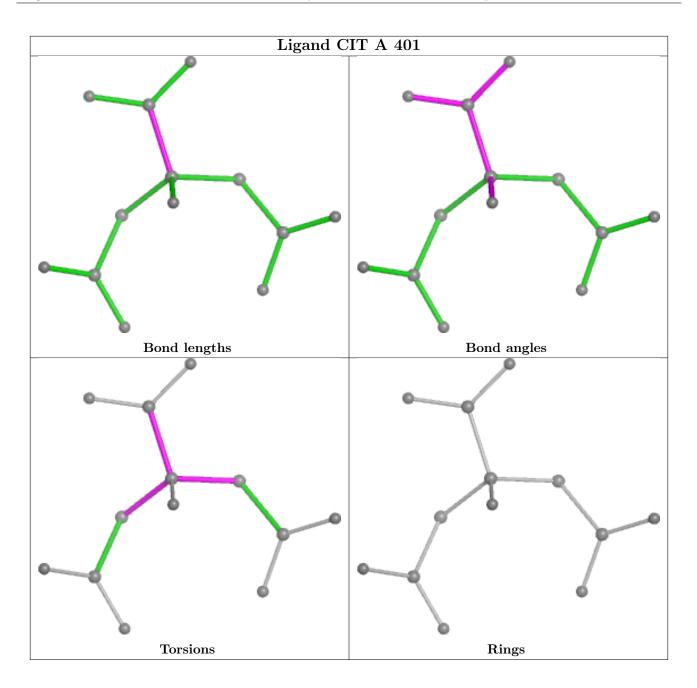
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



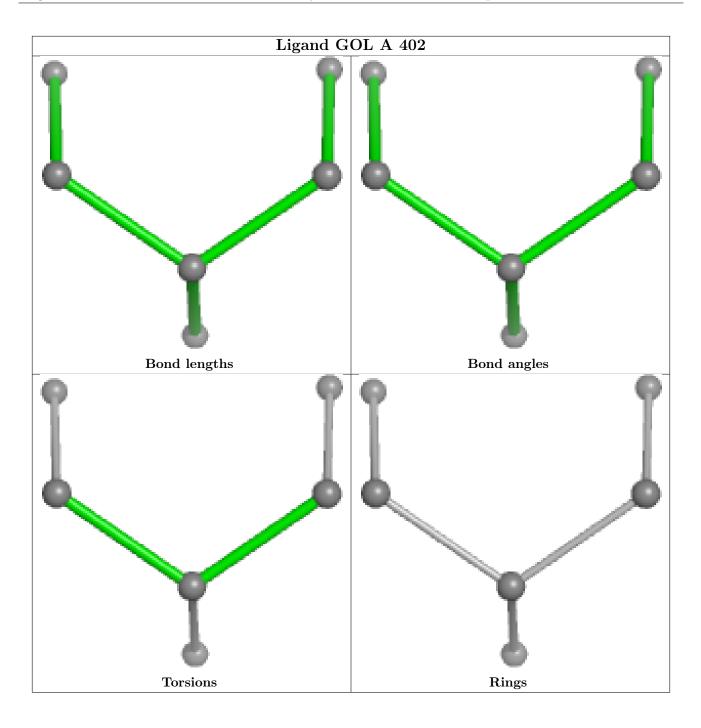
average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



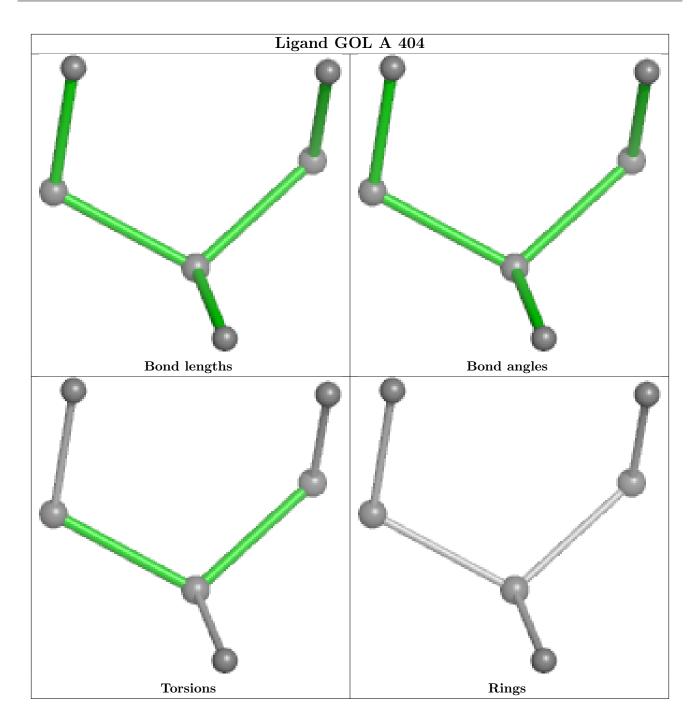












## 5.7 Other polymers (i)

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 $>$	#RSRZ>2	$\mathbf{OWAB}(\mathbf{\AA}^2)$	Q < 0.9
1	А	367/399~(91%)	0.84	46 (12%) 9 13	118, 153, 220, 345	0

All (46) RSRZ outliers are listed below:

Mol	Aol Chain I		Type	RSRZ	
1	А	181	ALA	6.3	
1	А	182	SER	6.2	
1	А	183	ALA	4.7	
1	А	188	PRO	4.3	
1	А	99	PRO	3.8	
1	А	6	SER	3.7	
1	А	174	LYS	3.5	
1	А	173	ALA	3.4	
1	А	185	ALA	3.4	
1	А	281	LYS	3.4	
1	А	186	ALA	3.3	
1	А	167	PHE	3.3	
1	А	209	GLU	3.3	
1	А	160	LEU	3.2	
1	А	180	LEU	3.1	
1	А	44	LYS	3.1	
1	А	190	SER	3.1	
1	А	356	LYS	3.1	
1	А	35	CYS	3.1	
1	А	204	PHE	2.9	
1	А	45	LYS	2.8	
1	А	9	ALA	2.8	
1	А	189	VAL	2.8	
1	А	335	TYR	2.7	
1	А	330	PHE	2.6	
1	А	118	LEU	2.6	
1	A	191	THR	2.6	

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Mol	Chain	Res	Type	RSRZ
1	А	321	GLU	2.6
1	А	214	TYR	2.5
1	А	28	ASP	2.5
1	А	89	ARG	2.5
1	А	252	TYR	2.4
1	А	334	HIS	2.4
1	А	149	VAL	2.3
1	А	93	GLU	2.3
1	А	142	HIS	2.3
1	А	327	SER	2.2
1	А	131	VAL	2.2
1	А	121	PHE	2.2
1	А	75	LYS	2.1
1	А	176	SER	2.1
1	А	42	LEU	2.0
1	А	227	LEU	2.0
1	А	100	ASP	2.0
1	А	156	LEU	2.0
1	А	76	GLY	2.0

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### 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.

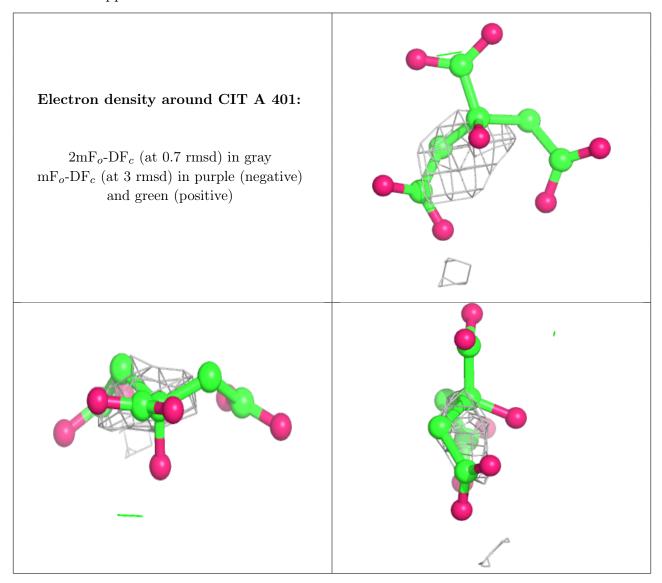
### 6.4 Ligands (i)

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.

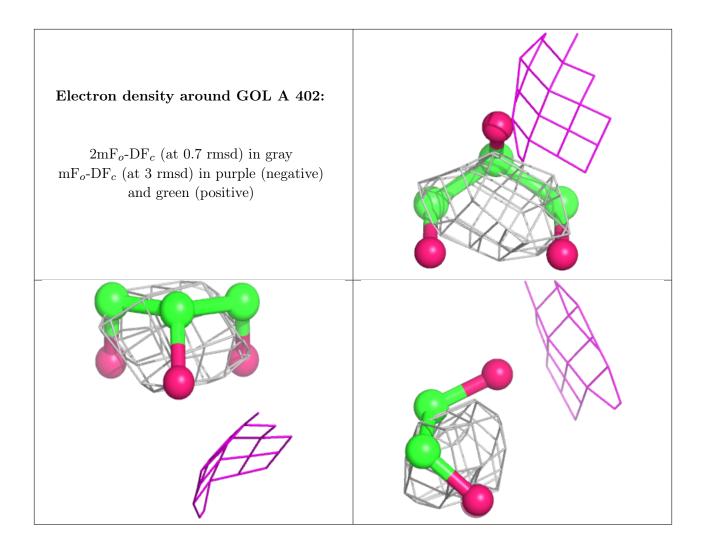
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} extsf{-}\mathbf{factors}(\mathbf{\AA}^2)$	Q<0.9
2	CIT	А	401	13/13	0.79	0.32	172,203,237,244	0
3	GOL	А	402	6/6	0.82	0.34	160,171,173,182	0
4	A1IDM	А	403	20/20	0.86	0.21	136,157,163,178	20
3	GOL	А	404	6/6	0.94	0.19	126,146,160,164	0



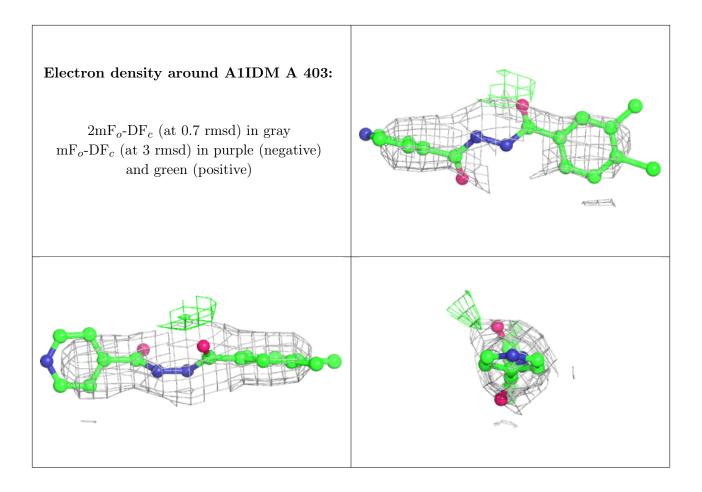
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



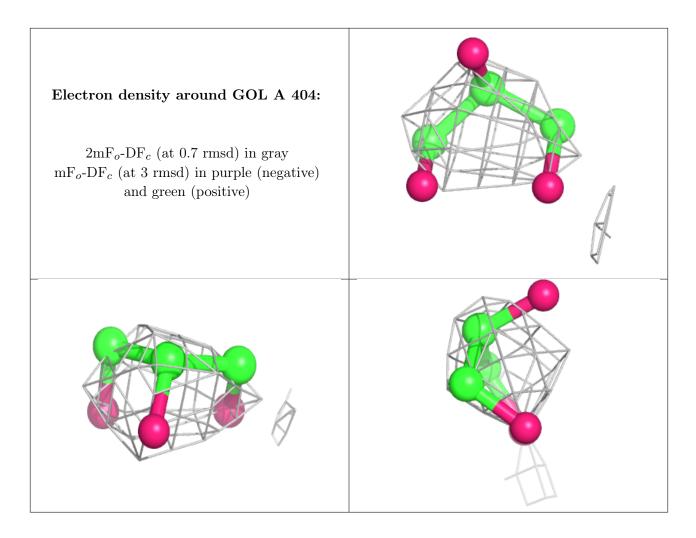












## 6.5 Other polymers (i)

There are no such residues in this entry.

