



# Full wwPDB X-ray Structure Validation Report ⓘ

Nov 9, 2021 – 02:16 PM EST

PDB ID : 5Q0Z  
Title : Ligand binding to FARNESOID-X-RECEPTOR  
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Deposited on : 2017-05-31  
Resolution : 2.26 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](mailto: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 ⓘ symbol.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtrriage (Phenix) : 1.13  
EDS : 2.23.2  
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) : 2.23.2

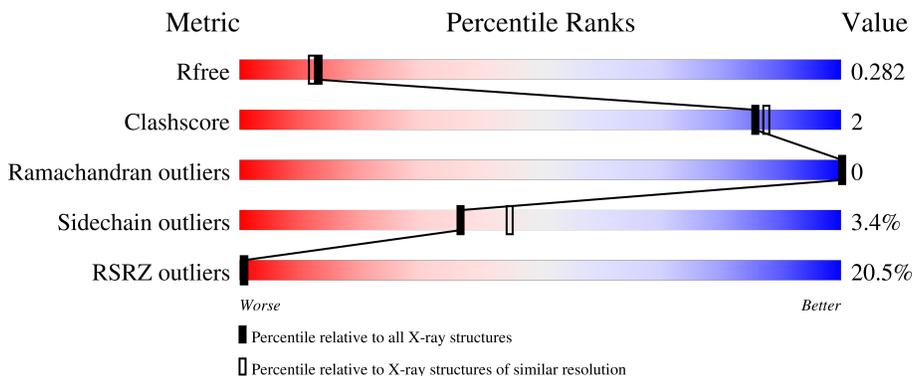
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.26 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1377 (2.26-2.26)
Clashscore	141614	1487 (2.26-2.26)
Ramachandran outliers	138981	1449 (2.26-2.26)
Sidechain outliers	138945	1450 (2.26-2.26)
RSRZ outliers	127900	1356 (2.26-2.26)

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  $\geq 3$ , 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  $\leq 5\%$ . 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	233	
1	C	233	
2	B	14	
2	D	14	

## 2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 4145 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 Bile acid receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	230	1890	1210	319	350	11	0	2	0
1	C	230	1889	1208	318	352	11	0	2	0

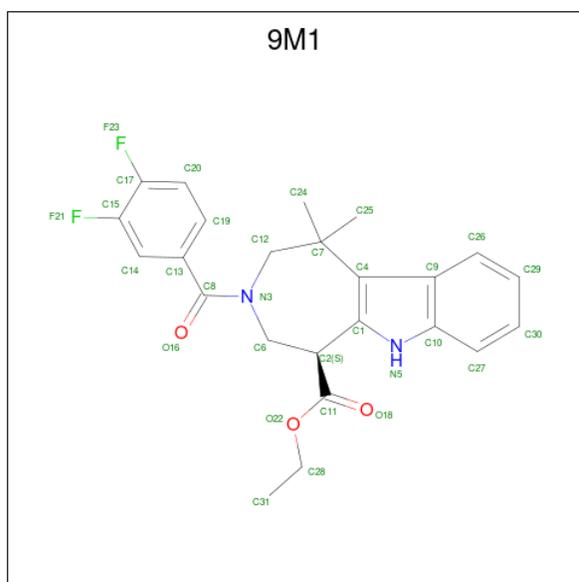
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	244	GLY	-	expression tag	UNP Q96RI1
A	245	SER	-	expression tag	UNP Q96RI1
A	246	HIS	-	expression tag	UNP Q96RI1
A	247	MET	-	expression tag	UNP Q96RI1
A	281	ALA	GLU	conflict	UNP Q96RI1
A	354	ALA	GLU	conflict	UNP Q96RI1
C	244	GLY	-	expression tag	UNP Q96RI1
C	245	SER	-	expression tag	UNP Q96RI1
C	246	HIS	-	expression tag	UNP Q96RI1
C	247	MET	-	expression tag	UNP Q96RI1
C	281	ALA	GLU	conflict	UNP Q96RI1
C	354	ALA	GLU	conflict	UNP Q96RI1

- Molecule 2 is a protein called COACTIVATOR PEPTIDE SRC-1 HD3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	B	11	99	64	18	17	0	0	0
2	D	11	99	64	18	17	0	0	0

- Molecule 3 is ethyl (5S)-3-(3,4-difluorobenzene-1-carbonyl)-1,1-dimethyl-1,2,3,4,5,6-hexahydroazepino[4,5-b]indole-5-carboxylate (three-letter code: 9M1) (formula: C<sub>24</sub>H<sub>24</sub>F<sub>2</sub>N<sub>2</sub>O<sub>3</sub>).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
3	A	1	Total	C	F	N	O	0	0
			31	24	2	2	3		
3	C	1	Total	C	F	N	O	0	0
			31	24	2	2	3		

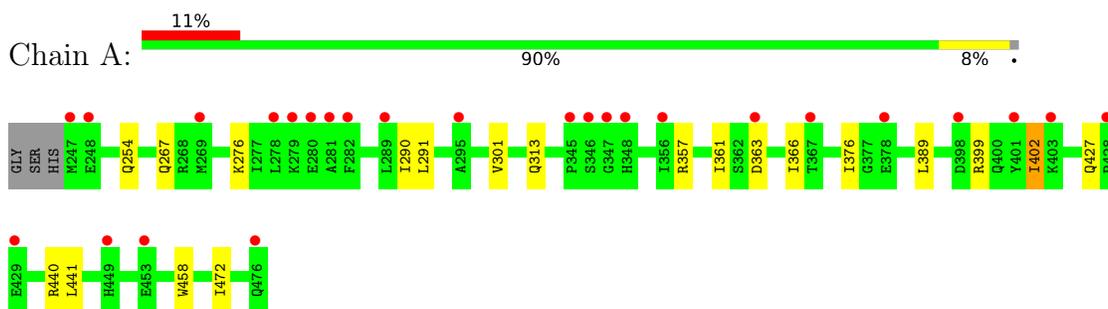
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	73	Total	O	0	0
			73	73		
4	B	4	Total	O	0	0
			4	4		
4	C	29	Total	O	0	0
			29	29		

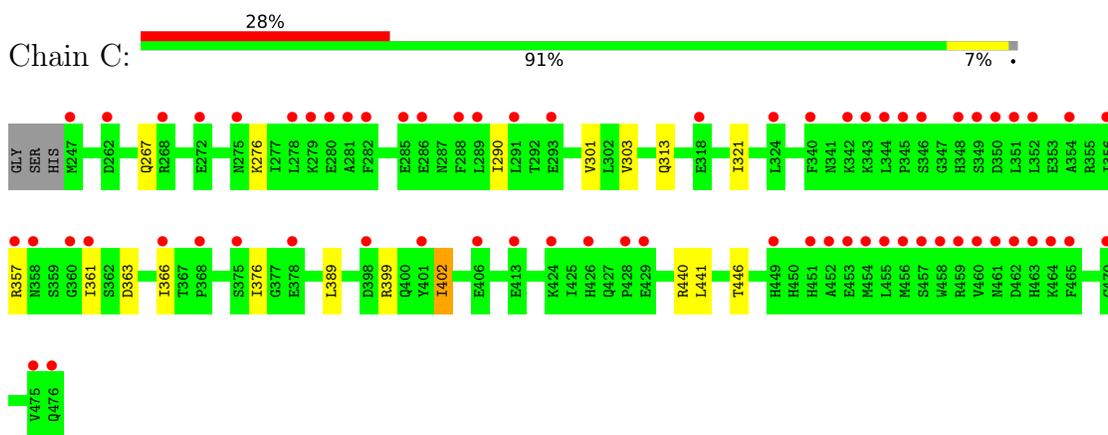
### 3 Residue-property plots [i](#)

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.

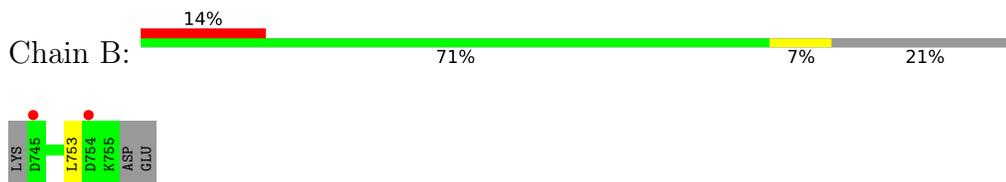
- Molecule 1: Bile acid receptor



- Molecule 1: Bile acid receptor



- Molecule 2: COACTIVATOR PEPTIDE SRC-1 HD3



- Molecule 2: COACTIVATOR PEPTIDE SRC-1 HD3



LYS	
D746	●
H746	●
Q747	
L748	
L749	●
R750	
T751	●
L752	
L753	
D754	●
K755	
ASP	
GLU	

## 4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	71.52Å 83.55Å 188.91Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	18.37 – 2.26 18.28 – 2.26	Depositor EDS
% Data completeness (in resolution range)	96.5 (18.37-2.26) 96.5 (18.28-2.26)	Depositor EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.32 (at 2.25Å)	Xtrriage
Refinement program	BUSTER 2.10.3	Depositor
R, $R_{free}$	0.236 , 0.258 0.252 , 0.282	Depositor DCC
$R_{free}$ test set	1295 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	55.2	Xtrriage
Anisotropy	0.086	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.31 , 58.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	4145	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	82.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.08% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<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.

## 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: 9M1

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	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.40	0/1936	0.55	0/2615
1	C	0.40	0/1935	0.56	0/2615
2	B	0.39	0/100	0.56	0/133
2	D	0.37	0/100	0.55	0/133
All	All	0.40	0/4071	0.55	0/5496

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	A	1890	0	1897	9	0
1	C	1889	0	1888	9	0
2	B	99	0	101	0	0
2	D	99	0	101	2	0
3	A	31	0	0	1	0
3	C	31	0	0	0	0
4	A	73	0	0	0	0
4	B	4	0	0	0	0
4	C	29	0	0	0	0
All	All	4145	0	3987	18	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 (18) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:399:ARG:HB3	1:A:402:ILE:HD13	1.69	0.75
1:C:399:ARG:HB3	1:C:402:ILE:HD13	1.70	0.73
1:A:361:ILE:HB	1:A:458:TRP:CZ3	2.34	0.62
1:A:361:ILE:HG23	1:A:366:ILE:HD11	1.88	0.55
1:A:389:LEU:HG	1:A:441:LEU:HD21	1.92	0.52
1:C:389:LEU:HG	1:C:441:LEU:HD21	1.91	0.52
1:C:357:ARG:HG2	1:C:366:ILE:HG21	1.92	0.51
1:A:357:ARG:HG2	1:A:366:ILE:HG21	1.93	0.50
1:A:276:LYS:HE2	1:A:290:ILE:HG12	1.95	0.48
1:C:363:ASP:HA	1:C:366:ILE:HD12	1.98	0.46
1:A:363:ASP:HA	1:A:366:ILE:HD12	1.98	0.45
1:A:291:LEU:HB3	3:A:500:9M1:C10	2.47	0.44
1:C:361:ILE:HG23	1:C:366:ILE:HD11	2.00	0.43
1:C:267:GLN:HA	1:C:301:VAL:HG11	2.01	0.42
1:C:276:LYS:HE2	1:C:290:ILE:HG12	2.01	0.41
1:A:267:GLN:HA	1:A:301:VAL:HG11	2.03	0.41
1:C:303:VAL:HG11	2:D:752:LEU:HB3	2.01	0.41
1:C:321:ILE:HG23	2:D:749:LEU:HD23	2.03	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	A	230/233 (99%)	226 (98%)	4 (2%)	0	100	100
1	C	230/233 (99%)	225 (98%)	5 (2%)	0	100	100
2	B	9/14 (64%)	8 (89%)	1 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	D	9/14 (64%)	8 (89%)	1 (11%)	0	100	100
All	All	478/494 (97%)	467 (98%)	11 (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	212/213 (100%)	205 (97%)	7 (3%)	38	46
1	C	212/213 (100%)	207 (98%)	5 (2%)	49	58
2	B	11/14 (79%)	10 (91%)	1 (9%)	9	7
2	D	11/14 (79%)	9 (82%)	2 (18%)	1	0
All	All	446/454 (98%)	431 (97%)	15 (3%)	37	45

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	254	GLN
1	A	313	GLN
1	A	376	ILE
1	A	402	ILE
1	A	427	GLN
1	A	440	ARG
1	A	472	ILE
2	B	753	LEU
1	C	313	GLN
1	C	376	ILE
1	C	402	ILE
1	C	440	ARG
1	C	446	THR
2	D	747	GLN
2	D	753	LEU

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

Mol	Chain	Res	Type
1	A	476	GLN
1	C	427	GLN
1	C	476	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](#)

2 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		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	9M1	C	500	-	29,34,34	1.61	3 (10%)	34,51,51	0.66	0
3	9M1	A	500	-	29,34,34	1.73	5 (17%)	34,51,51	0.75	1 (2%)

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	9M1	C	500	-	-	0/15/34/34	0/4/4/4
3	9M1	A	500	-	-	0/15/34/34	0/4/4/4

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	500	9M1	C4-C9	6.00	1.51	1.40
3	A	500	9M1	C4-C9	5.99	1.51	1.40
3	C	500	9M1	C8-N3	4.47	1.44	1.34
3	A	500	9M1	C8-N3	4.24	1.44	1.34
3	A	500	9M1	C6-N3	-3.23	1.42	1.46
3	A	500	9M1	O22-C28	2.44	1.54	1.46
3	C	500	9M1	C7-C4	2.36	1.58	1.54
3	A	500	9M1	C7-C4	2.34	1.58	1.54

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	500	9M1	C13-C8-N3	2.81	122.28	118.72

There are no chirality outliers.

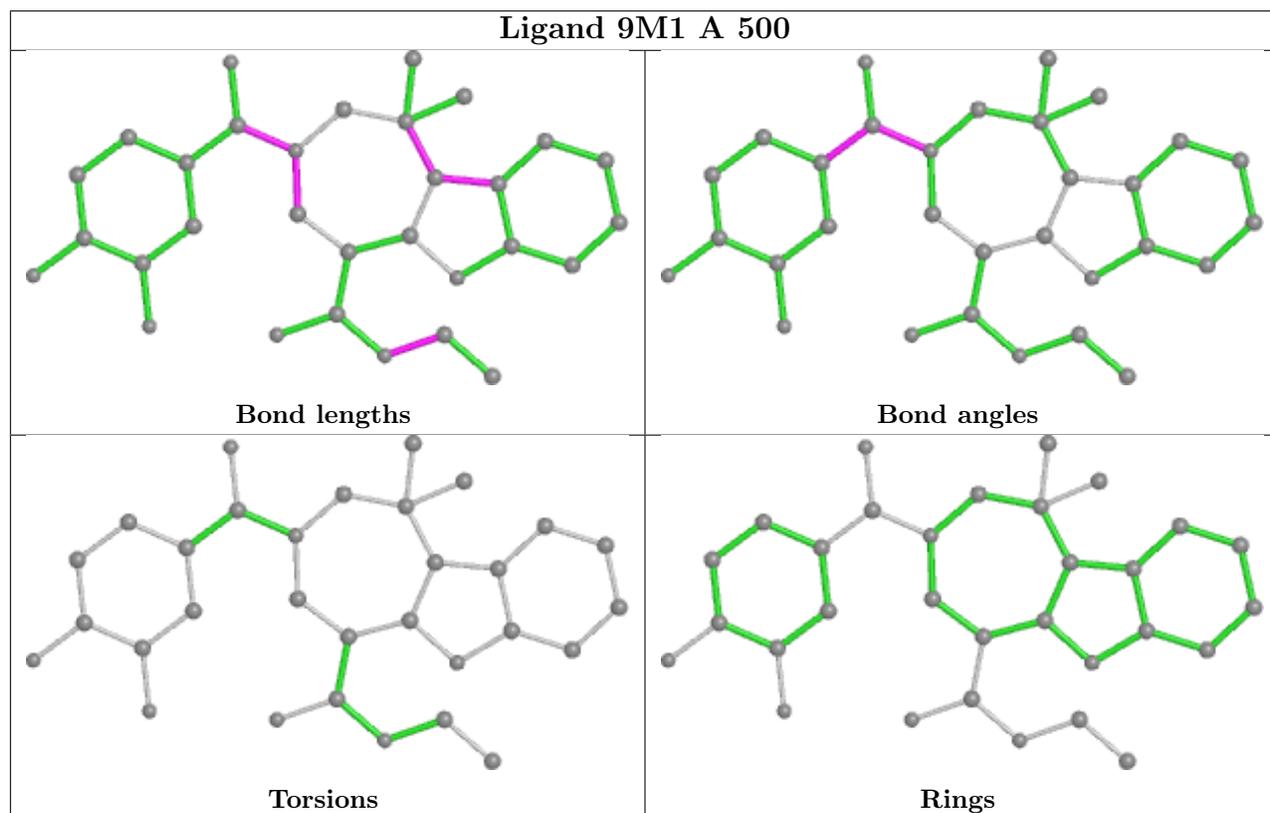
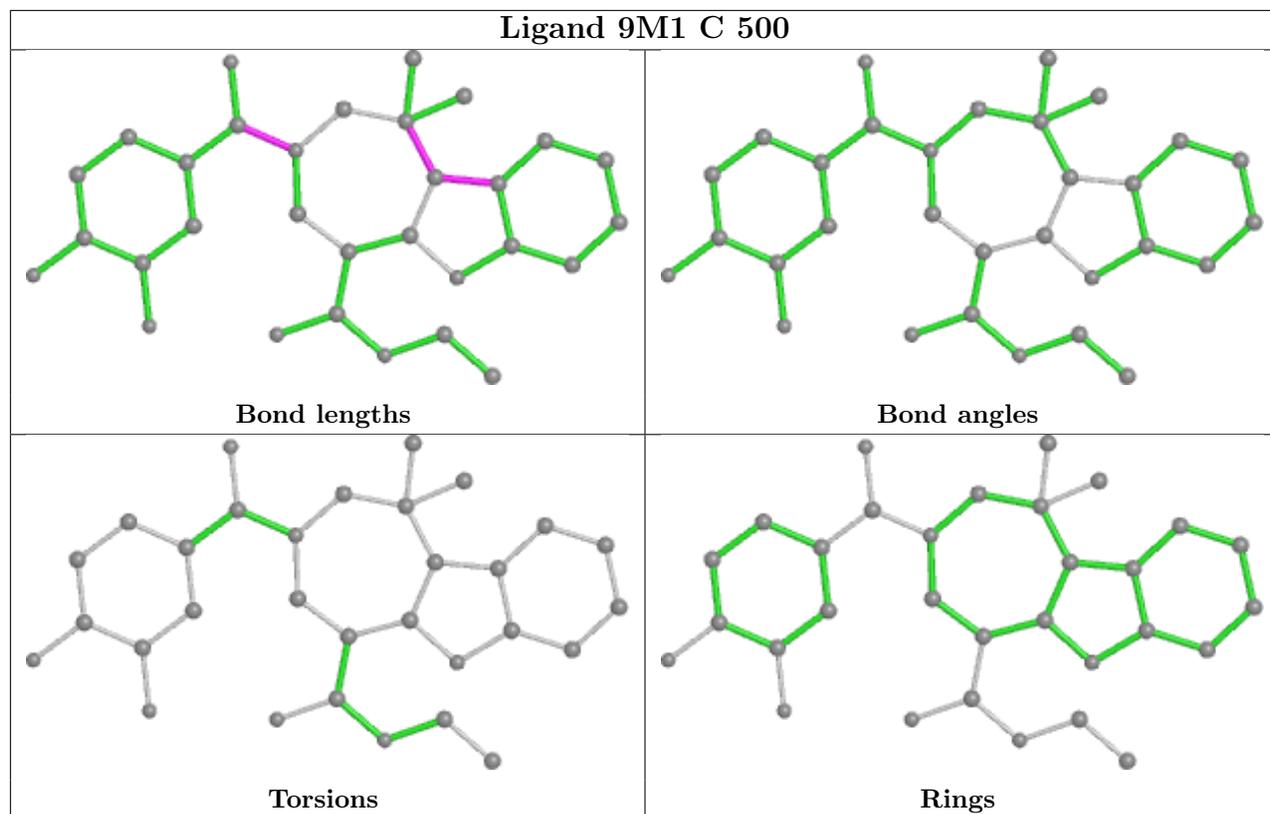
There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	500	9M1	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 than 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<sup>th</sup> 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(Å <sup>2</sup> )	Q<0.9
1	A	230/233 (98%)	0.68	26 (11%) 5 4	42, 68, 97, 119	0
1	C	230/233 (98%)	1.67	66 (28%) 0 0	48, 84, 162, 198	0
2	B	11/14 (78%)	1.48	2 (18%) 1 1	51, 60, 93, 105	0
2	D	11/14 (78%)	1.89	5 (45%) 0 0	95, 103, 122, 123	0
All	All	482/494 (97%)	1.20	99 (20%) 1 1	42, 75, 146, 198	0

All (99) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	461	ASN	17.8
1	C	282	PHE	11.7
1	C	458	TRP	11.6
1	C	462	ASP	11.3
1	C	285	GLU	8.8
1	C	459	ARG	8.7
1	C	452	ALA	8.2
1	C	346	SER	8.1
1	C	280	GLU	7.3
1	C	281	ALA	7.0
1	C	286	GLU	6.9
1	C	460	VAL	6.8
1	C	278	LEU	6.3
1	C	463	HIS	5.9
1	C	358[A]	ASN	5.8
1	C	476	GLN	5.5
1	C	348	HIS	5.4
1	C	349	SER	5.3
1	C	456	MET	5.2
1	C	351	LEU	5.0
1	A	247	MET	5.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	C	464	LYS	5.0
1	C	455	LEU	4.9
1	C	366	ILE	4.7
2	B	745	ASP	4.6
1	C	289	LEU	4.6
1	C	361	ILE	4.4
1	C	398	ASP	4.3
1	A	281	ALA	4.1
1	C	378	GLU	4.0
2	D	746	HIS	4.0
1	C	342	LYS	3.9
1	C	453	GLU	3.8
1	A	429	GLU	3.8
1	A	345	PRO	3.8
1	C	475	VAL	3.8
1	A	289	LEU	3.7
1	C	345	PRO	3.6
1	C	343	LYS	3.6
1	C	426	HIS	3.6
1	A	346	SER	3.5
1	A	363	ASP	3.5
1	C	318	GLU	3.5
1	C	247	MET	3.4
1	C	449	HIS	3.4
1	A	279	LYS	3.3
2	D	749	LEU	3.3
1	C	279	LYS	3.3
1	A	367	THR	3.2
1	C	429	GLU	3.2
1	C	357	ARG	3.2
1	C	375	SER	3.2
1	A	449	HIS	3.1
1	C	352	LEU	3.0
1	C	454	MET	3.0
1	A	476	GLN	3.0
1	C	344	LEU	3.0
1	C	457	SER	3.0
1	C	470	CYS	2.9
1	A	278	LEU	2.9
1	C	350	ASP	2.9
1	C	451	HIS	2.9
2	B	754	ASP	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	347	GLY	2.8
1	A	401	TYR	2.8
2	D	745	ASP	2.7
1	A	428	PRO	2.6
1	C	356	ILE	2.6
1	A	348	HIS	2.5
1	C	406	GLU	2.5
1	A	356	ILE	2.5
1	C	275	ASN	2.4
1	A	453	GLU	2.4
1	C	288	PHE	2.4
1	C	465	PHE	2.4
1	C	340	PHE	2.4
1	C	424	LYS	2.3
1	C	428	PRO	2.3
1	C	324	LEU	2.3
1	A	295	ALA	2.3
1	C	401	TYR	2.2
2	D	751	TYR	2.2
1	C	291	LEU	2.2
1	A	280	GLU	2.2
1	A	282	PHE	2.2
1	C	360	GLY	2.2
1	C	413	GLU	2.2
1	A	378	GLU	2.1
1	A	403	LYS	2.1
1	C	354	ALA	2.1
1	A	398	ASP	2.1
1	C	268	ARG	2.1
1	C	368	PRO	2.1
1	A	248	GLU	2.1
1	C	272	GLU	2.1
2	D	754	ASP	2.0
1	C	293	GLU	2.0
1	A	269	MET	2.0
1	C	262	ASP	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

### 6.3 Carbohydrates [i](#)

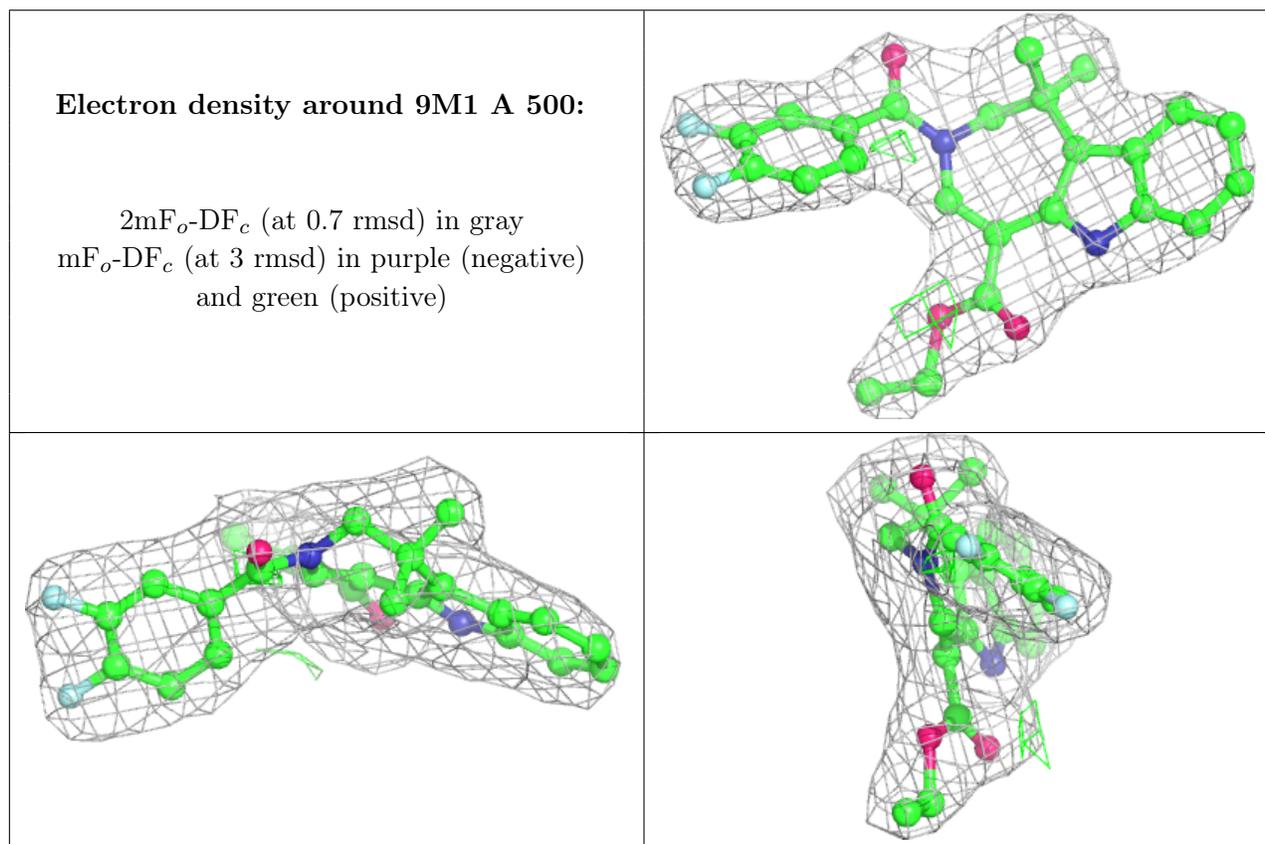
There are no monosaccharides in this entry.

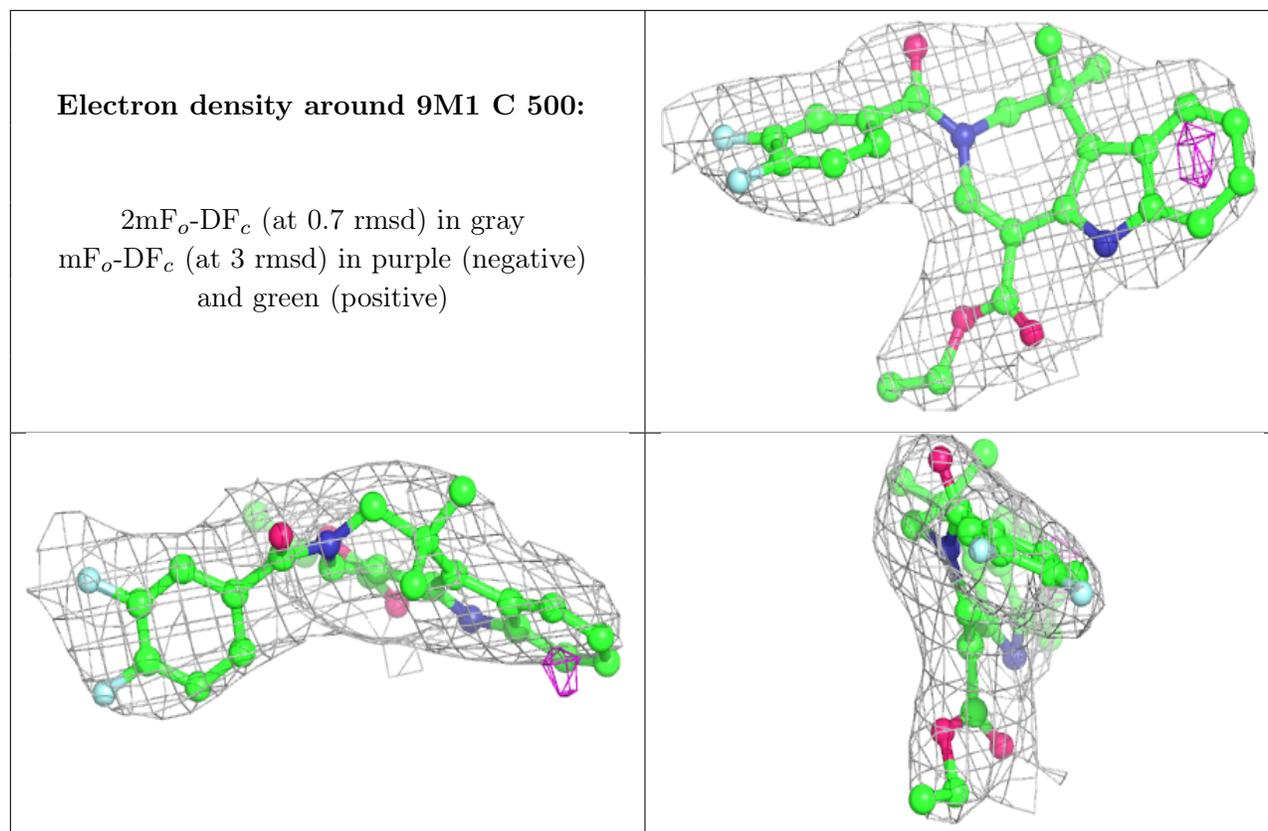
### 6.4 Ligands [i](#)

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<sup>th</sup> 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	B-factors(Å <sup>2</sup> )	Q<0.9
3	9M1	A	500	31/31	0.88	0.29	48,55,59,59	0
3	9M1	C	500	31/31	0.92	0.25	75,84,91,91	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.