

wwPDB X-ray Structure Validation Summary Report (i)

May 22, 2020 – 12:43 pm BST

PDB ID	:	5Z12
Title	:	A structure of FXR/RXR
Authors	:	Lu, Y.; Li, Y.
Deposited on		
Resolution	:	2.75 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 following versions of software and data (see references (1)) were used in the production of this report:

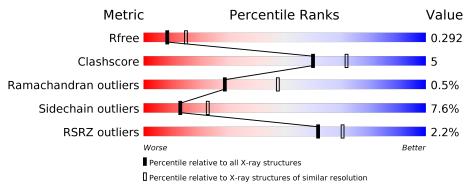
MolProbity		4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	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 2.75 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	1235(2.78-2.74)
Clashscore	141614	1277 (2.78-2.74)
Ramachandran outliers	138981	1257 (2.78-2.74)
Sidechain outliers	138945	1257 (2.78-2.74)
RSRZ outliers	127900	1207 (2.78-2.74)

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	Qua	lity of chain	
1	А	228	85%		12% ••
1	D	228	5%	Ó	11% ••
2	В	231	^{2%} 82%		11% • 6%
2	С	231	80%		8% 12%
3	F	9	44%	33%	22%
3	I	9	11%	56%	

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Mol	Chain	Length	Quality of chain			
			17%			
4	Н	6	33%	50%	17%	
	-	0				
4	J	6	33%	50%	17%	



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 7405 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		At	oms			ZeroOcc	AltConf	Trace
1	Λ	223	Total	С	Ν	Ο	S	0	0	0
1	Л	220	1828	1172	304	341	11	0	0	0
1	п	223	Total	С	Ν	Ο	S	0	0	0
	D	223	1816	1165	302	338	11	U	U	0

• Molecule 2 is a protein called Retinoic acid receptor RXR-alpha.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
0	C	203	Total	С	Ν	Ο	S	0	0	0
	U	203	1596	1029	274	284	9	0		
0	р	217	Total	С	Ν	Ο	S	0	0	0
	D	211	1714	1099	293	312	10	0	U	0

• Molecule 3 is a protein called Peptide from Nuclear receptor coactivator 2.

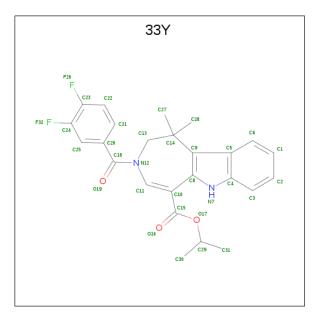
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
3	F	9	Total C N O 81 53 18 10	0	0	0
3	Ι	9	Total C N O 81 53 18 10	0	0	0

• Molecule 4 is a protein called Peptide from Nuclear receptor coactivator 2.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
4	J	6	Total C N O 56 36 14 6	0	0	0
4	Н	6	Total C N O 56 36 14 6	0	0	0

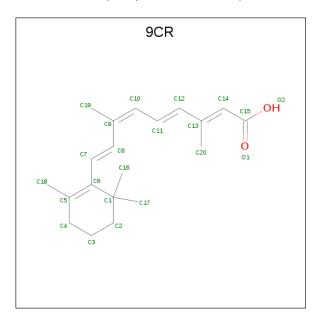
• Molecule 5 is 1-methylethyl 3-[(3,4-difluorophenyl)carbonyl]-1,1-dimethyl-1,2,3,6-tetrahydro azepino[4,5-b]indole-5-carboxylate (three-letter code: 33Y) (formula: $C_{25}H_{24}F_2N_2O_3$).





Mol	Chain	Residues		Ato	\mathbf{ms}			ZeroOcc	AltConf	
Б	Δ	1	Total					0	0	
0	А	T	32	25	2	2	3	0	0	
Б	Л	1	Total	С	F	Ν	Ο	0	0	
			32	25	2	2	3	0		

• Molecule 6 is (9cis)-retinoic acid (three-letter code: 9CR) (formula: $C_{20}H_{28}O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	С	1	Total C O 22 20 2	0	0
6	В	1	Total C O 22 20 2	0	0



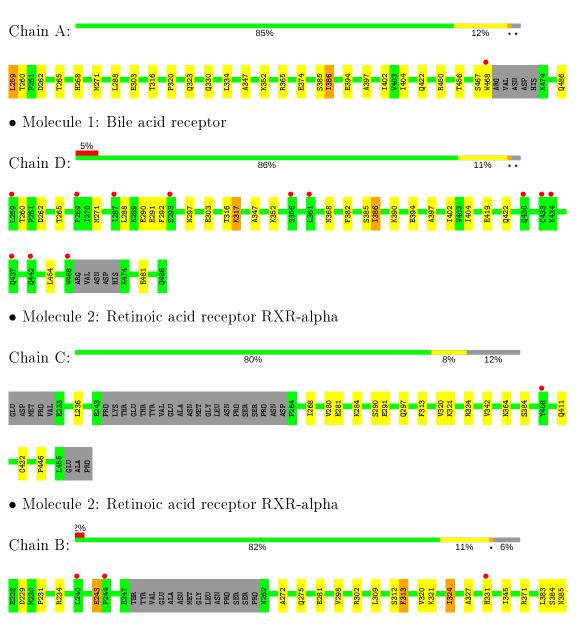
• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	20	Total O 20 20	0	0
7	С	18	Total O 18 18	0	0
7	D	14	Total O 14 14	0	0
7	В	17	Total O 17 17	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: Bile acid receptor





• Molecule 3: Peptide from Nuclear receptor coactivator 2

Chain F:	44%	33%	22%
H630 K631 H634 R635 L635 L637 Q638			
• Molecule 3:	Peptide from Nucle	ear receptor coactivator 2	
119	6		
Chain I:	44%	56%	
H687 K688 L689 L690 H691 R692 L693 L693 L693 C695			
• Molecule 4:	Peptide from Nucle	ear receptor coactivator 2	
Chain J:	33%	50%	17%
H746 K747 L749 L749 H750 R751			
• Molecule 4:	Peptide from Nucle	ear receptor coactivator 2	
	17%		
Chain H:	33%	50%	17%
it746 K747 1748 L748 L749 R751 R751			



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	89.87Å 95.48Å 116.72Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 - 2.75	Depositor
Resolution (A)	49.80 - 2.75	EDS
% Data completeness	70.9 (50.00-2.75)	Depositor
(in resolution range)	70.9(49.80-2.75)	EDS
R _{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$6.50 (at 2.77 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0189	Depositor
D D.	0.230 , 0.290	Depositor
R, R_{free}	0.230 , 0.292	DCC
R_{free} test set	968 reflections (5.12%)	wwPDB-VP
Wilson B-factor $(Å^2)$	42.5	Xtriage
Anisotropy	0.202	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.30 , 31.6	EDS
L-test for twinning ²	$ \langle L \rangle = 0.49, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	7405	wwPDB-VP
Average B, all atoms $(Å^2)$	44.0	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 26.35 % 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 2.6786e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

²Theoretical 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.



¹Intensities 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: 9CR, $33\mathrm{Y}$

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).

Mal	Mol Chain		Bond lengths		nd angles
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.52	0/1866	0.73	0/2519
1	D	0.51	0/1854	0.74	0/2505
2	В	0.54	0/1748	0.76	1/2364~(0.0%)
2	С	0.50	0/1627	0.75	0/2198
3	F	0.67	0/82	0.94	0/108
3	Ι	0.64	0/82	1.05	2/108~(1.9%)
4	Н	0.75	0/57	1.38	1/74~(1.4%)
4	J	0.64	0/57	1.22	0/74
All	All	0.52	0/7373	0.76	4/9950~(0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	А	0	1
2	С	0	2
4	Н	0	1
All	All	0	4

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
4	Η	749	LEU	CA-CB-CG	5.61	128.21	115.30
3	Ι	692	ARG	NE-CZ-NH2	-5.26	117.67	120.30
2	В	371	ARG	NE-CZ-NH1	5.21	122.91	120.30
3	Ι	692	ARG	NE-CZ-NH1	5.16	122.88	120.30



There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	Group
1	А	320	PRO	Peptide
2	С	320	VAL	Peptide
2	С	321	LYS	Peptide
4	Н	746	HIS	Peptide

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	1828	0	1830	9	0
1	D	1816	0	1809	11	0
2	В	1714	0	1747	11	0
2	С	1596	0	1637	8	0
3	F	81	0	91	7	0
3	Ι	81	0	91	0	0
4	Н	56	0	61	20	0
4	J	56	0	61	2	0
5	А	32	0	24	1	0
5	D	32	0	24	1	0
6	В	22	0	27	5	0
6	С	22	0	27	6	0
7	А	20	0	0	1	0
7	В	17	0	0	0	0
7	С	18	0	0	0	0
7	D	14	0	0	1	0
All	All	7405	0	7429	68	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 5.

The worst 5 of 68 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)
4:H:746:HIS:HA	4:H:750:HIS:CD2	1.75	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:309:LEU:HB3	6:B:501:9CR:H27	1.54	0.87
4:H:746:HIS:HA	4:H:750:HIS:NE2	1.90	0.85
6:C:501:9CR:O2	6:C:501:9CR:H25	1.78	0.83
1:D:481:GLU:OE2	4:H:746:HIS:N	2.17	0.77

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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	219/228~(96%)	215~(98%)	4 (2%)	0	100 100
1	D	219/228~(96%)	210~(96%)	8 (4%)	1 (0%)	29 47
2	В	213/231 (92%)	198~(93%)	14 (7%)	1 (0%)	29 47
2	С	199/231~(86%)	184 (92%)	14 (7%)	1 (0%)	29 47
3	F	7/9~(78%)	7~(100%)	0	0	100 100
3	Ι	7/9~(78%)	6~(86%)	1 (14%)	0	100 100
4	Η	4/6~(67%)	2~(50%)	1 (25%)	1 (25%)	0 0
4	J	4/6~(67%)	2~(50%)	2(50%)	0	100 100
All	All	872/948~(92%)	824 (94%)	44 (5%)	4 (0%)	29 47

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	291	GLU
4	Н	750	HIS
2	В	243	GLU
2	С	446	PRO



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	А	206/211~(98%)	190~(92%)	16~(8%)	12 22
1	D	203/211~(96%)	191~(94%)	12~(6%)	19 34
2	В	187/199~(94%)	173~(92%)	14 (8%)	13 23
2	С	172/199~(86%)	163~(95%)	9~(5%)	23 39
3	F	9/9~(100%)	7~(78%)	2(22%)	1 1
3	Ι	9/9~(100%)	5~(56%)	4 (44%)	0 0
4	Η	6/6~(100%)	4~(67%)	2(33%)	0 0
4	J	6/6~(100%)	4(67%)	2(33%)	0 0
All	All	798/850~(94%)	737~(92%)	$61 \ (8\%)$	13 23

5 of 61 residues with a non-rotameric sidechain are listed below:

Mol	Chain	\mathbf{Res}	Type
4	J	746	HIS
1	D	303	GLU
2	В	448	ASP
4	J	747	LYS
1	D	262	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	\mathbf{Res}	Type
1	D	277	GLN
1	D	443	HIS
2	В	333	HIS
3	F	634	HIS
2	В	331	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 carbohydrates 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).

Mal	Mol Type Chain		Res	Link	Bo	ond leng	ths	Bond angles		
	Type	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
6	9CR	В	501	-	19,22,22	0.59	0	$26,\!30,\!30$	2.41	9 (34%)
5	33Y	D	501	-	29,35,35	1.51	2 (6%)	$37,\!53,\!53$	1.68	<mark>6 (16%)</mark>
5	33Y	А	501	-	29,35,35	1.74	3 (10%)	$37,\!53,\!53$	2.40	11 (29%)
6	9CR	С	501	-	19,22,22	0.84	0	$26,\!30,\!30$	3.41	15 (57%)

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	\mathbf{Res}	\mathbf{Link}	Chirals	Torsions	Rings
6	9CR	В	501	-	-	2/13/32/32	0/1/1/1
5	33Y	D	501	-	-	5/16/35/35	0/4/4/4
5	33Y	А	501	-	-	4/16/35/35	0/4/4/4
6	9CR	С	501	-	-	5/13/32/32	0/1/1/1

All (5) bond length outliers are listed below:

Ν	Лоl	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\operatorname{\AA})$
	5	А	501	33Y	O17-C15	6.74	1.49	1.34

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Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\operatorname{\AA})$
5	D	501	33Y	O17-C15	5.50	1.47	1.34
5	А	501	33Y	C8-C9	3.72	1.48	1.40
5	D	501	33Y	C8-C9	3.65	1.48	1.40
5	А	501	33Y	C14-C9	-3.34	1.49	1.54

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The worst 5 of 41 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
5	А	501	33Y	O17-C15-C10	6.70	127.45	111.91
6	В	501	9CR	C7-C8-C9	-6.51	116.40	126.23
6	С	501	9CR	C8-C7-C6	-6.47	109.03	127.20
5	А	501	33Y	C20-C18-N12	6.27	124.64	118.38
6	С	501	9CR	C8-C9-C10	-6.09	109.59	118.94

There are no chirality outliers.

5 of 16 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	D	501	33Y	C20-C18-N12-C13
5	D	501	33Y	C20-C18-N12-C11
5	D	501	33Y	O19-C18-N12-C13
5	D	501	33Y	O19-C18-N12-C11
5	А	501	33Y	C10-C15-O17-C29

There are no ring outliers.

4 monomers are involved in 13 short contacts:

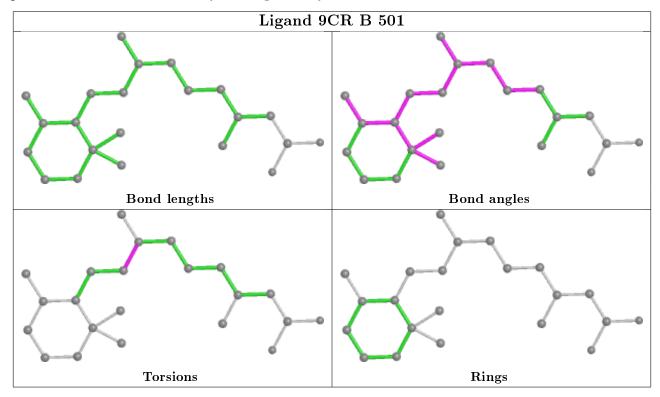
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	В	501	9CR	5	0
5	D	501	33Y	1	0
5	А	501	33Y	1	0
6	С	501	9CR	6	0

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



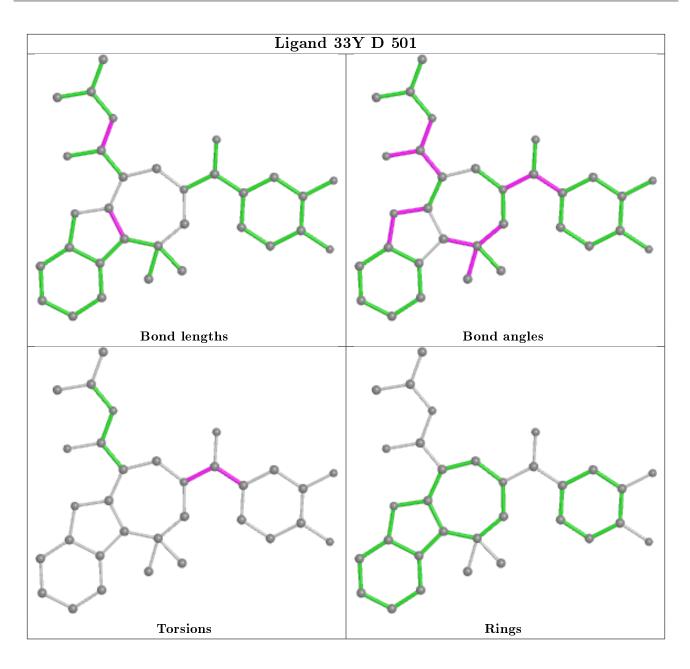
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any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



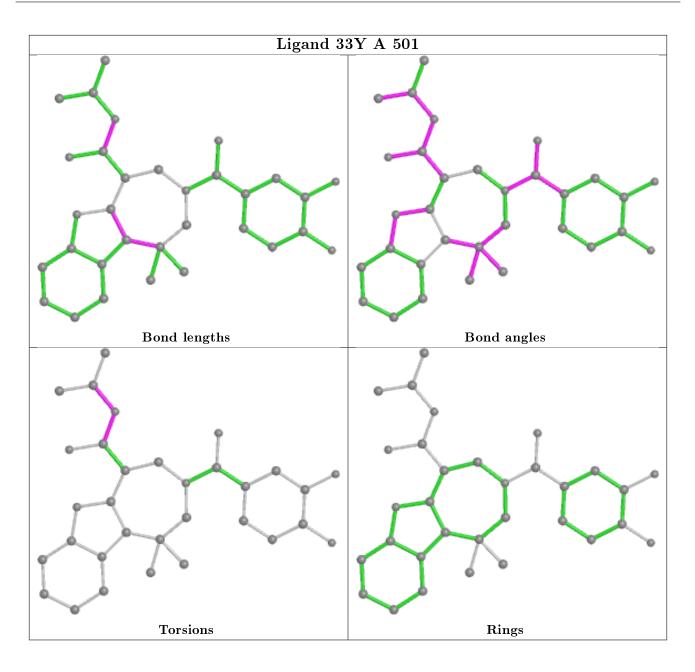




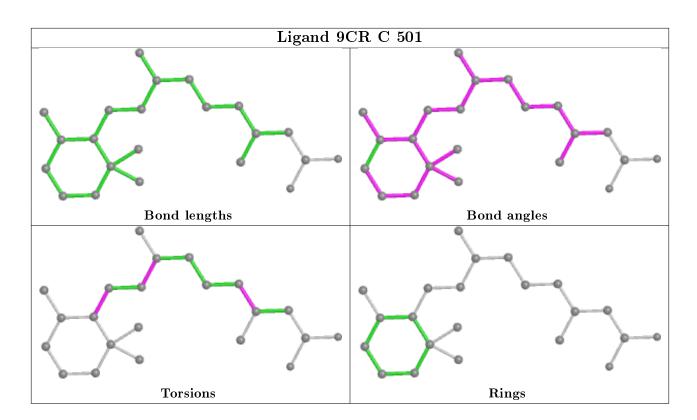












5.7 Other polymers (i)

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	$\mathbf{OWAB}(\mathrm{\AA}^2)$	$Q{<}0.9$
1	А	223/228 (97%)	-0.18	1 (0%) 92 95	13, 38, 69, 87	0
1	D	223/228~(97%)	0.12	12 (5%) 25 31	22, 47, 86, 109	0
2	В	217/231 (93%)	-0.13	4 (1%) 68 76	16, 41, 72, 103	0
2	С	203/231 (87%)	-0.11	1 (0%) 91 94	18, 43, 72, 98	0
3	F	9/9 (100%)	0.19	0 100 100	41, 46, 60, 60	0
3	Ι	9/9~(100%)	0.24	1 (11%) 5 6	45, 55, 67, 76	0
4	Η	6/6~(100%)	1.28	1 (16%) 1 1	65, 84, 87, 99	0
4	J	6/6~(100%)	0.36	0 100 100	48, 63, 69, 75	0
All	All	896/948~(94%)	-0.06	20 (2%) 62 70	13, 43, 75, 109	0

The worst 5 of 20 RSRZ outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	RSRZ
1	D	356	SER	5.7
1	D	434	LYS	3.6
1	D	468	TRP	3.4
2	В	407	LYS	3.4
2	С	408	TYR	3.2

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.

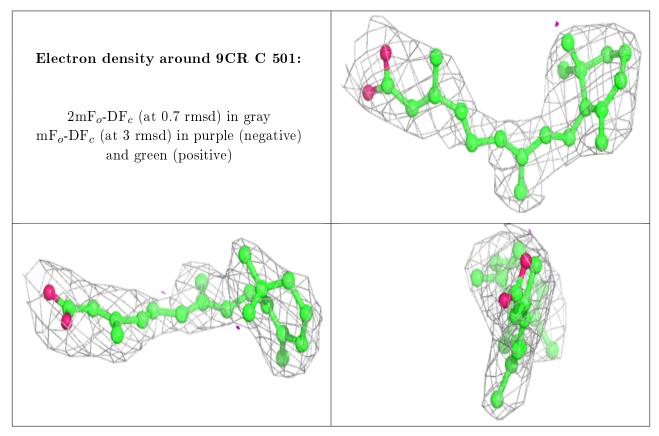


6.4 Ligands (i)

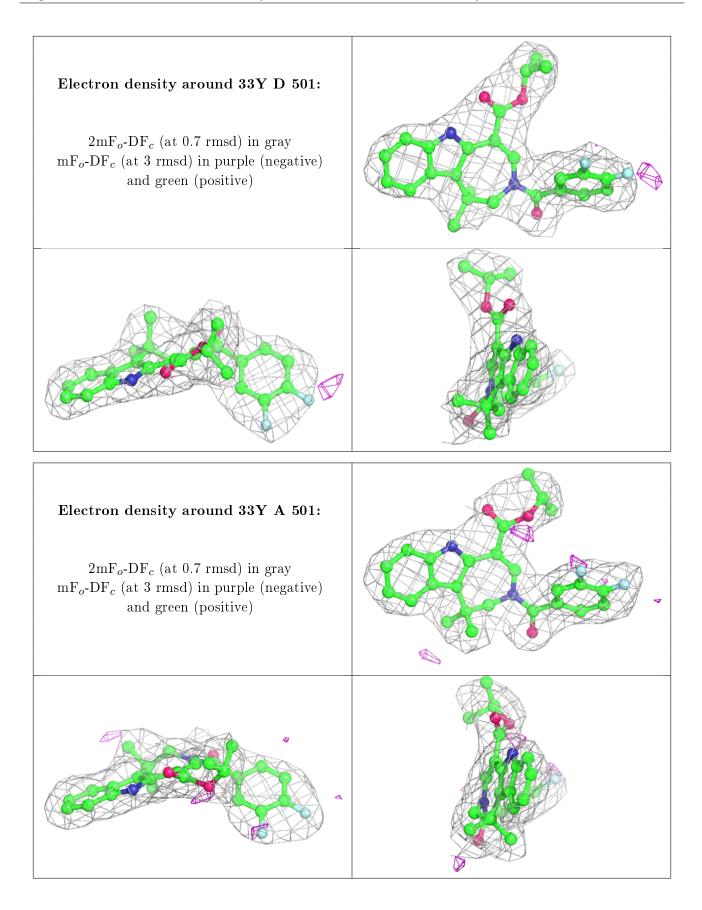
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B} ext{-factors}({f A}^2)$	$Q{<}0.9$
6	9CR	С	501	22/22	0.93	0.21	$26,\!31,\!33,\!33$	0
5	33Y	D	501	32/32	0.94	0.17	$25,\!30,\!34,\!40$	0
5	33Y	А	501	32/32	0.95	0.16	$17,\!19,\!24,\!26$	0
6	9CR	В	501	22/22	0.95	0.21	$26,\!30,\!33,\!33$	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.

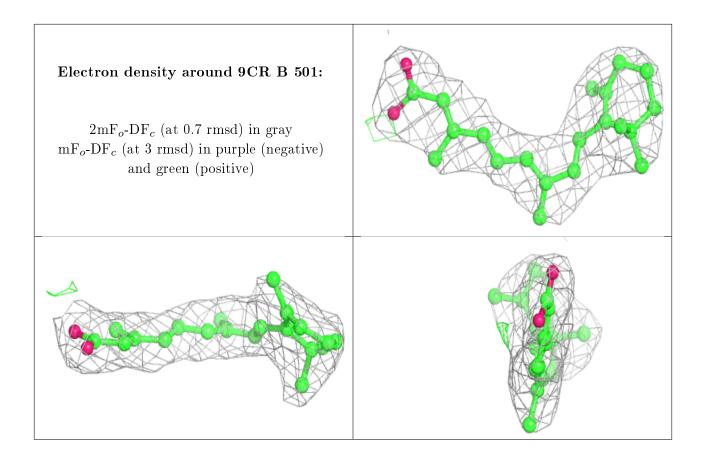












6.5 Other polymers (i)

There are no such residues in this entry.

