

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

#### Oct 11, 2021 – 05:49 AM EDT

PDB ID	:	2Q6B
Title	:	Design and synthesis of novel, conformationally restricted HMG-COA reduc-
		tase inhibitors
Authors	:	Pavlovsky, A.; Pfefferkorn, J.A.; Harris, M.S.; Finzel, B.C.
Deposited on	:	2007-06-04
Resolution	:	2.00 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:

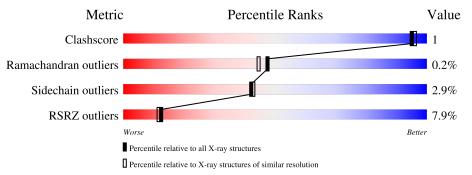
MolProbity		
		1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.23.2
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.23.2

# 1 Overall quality at a glance (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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
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 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	А	441	<u>6%</u> 90%	6% •
1	В	441	88%	7% •
1	С	441	3% 90%	5% •
1	D	441	9%	• 5%



#### 2Q6B

# 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 13820 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.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Δ	425	Total	С	Ν	0	$\mathbf{S}$	0	0	0
	A	420	3167	1974	558	605	30	0	0	0
1	В	423	Total	С	Ν	0	S	0	0	0
	D	423	3148	1962	553	603	30	0	0	U
1	C	422	Total	С	Ν	0	S	0	0	0
		422	3139	1957	552	600	30	0		0
1	р	110	Total	С	Ν	0	S	0	0	0
	I D	418	3113	1940	549	594	30	0	U	0

• Molecule 1 is a protein called 3-hydroxy-3-methylglutaryl-coenzyme A reductase.

There are 28 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	435	HIS	-	expression tag	UNP P04035
А	436	HIS	-	expression tag	UNP P04035
А	437	HIS	-	expression tag	UNP P04035
А	438	HIS	-	expression tag	UNP P04035
А	439	HIS	-	expression tag	UNP P04035
А	440	HIS	-	expression tag	UNP P04035
А	485	ILE	MET	engineered mutation	UNP P04035
В	435	HIS	-	expression tag	UNP P04035
В	436	HIS	-	expression tag	UNP P04035
В	437	HIS	-	expression tag	UNP P04035
В	438	HIS	-	expression tag	UNP P04035
В	439	HIS	-	expression tag	UNP P04035
В	440	HIS	-	expression tag	UNP P04035
В	485	ILE	MET	engineered mutation	UNP P04035
С	435	HIS	-	expression tag	UNP P04035
С	436	HIS	-	expression tag	UNP P04035
С	437	HIS	-	expression tag	UNP P04035
С	438	HIS	-	expression tag	UNP P04035
С	439	HIS	-	expression tag	UNP P04035
С	440	HIS	-	expression tag	UNP P04035
С	485	ILE	MET	engineered mutation	UNP P04035

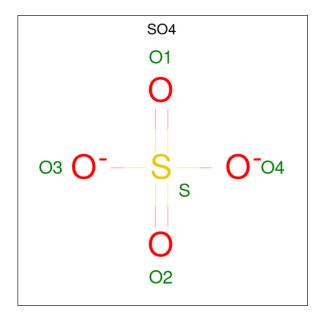
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Chain	Residue	Modelled	Actual	Comment	Reference
D	435	HIS	-	expression tag	UNP P04035
D	436	HIS	-	expression tag	UNP P04035
D	437	HIS	-	expression tag	UNP P04035
D	438	HIS	-	expression tag	UNP P04035
D	439	HIS	-	expression tag	UNP P04035
D	440	HIS	-	expression tag	UNP P04035
D	485	ILE	MET	engineered mutation	UNP P04035

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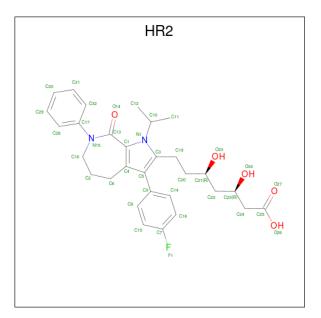
• Molecule 2 is SULFATE ION (three-letter code: SO4) (formula:  $O_4S$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	С	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	D	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0

• Molecule 3 is (3R,5R)-7-[3-(4-FLUOROPHENYL)-1-ISOPROPYL-8-OXO-7-PHENYL-1,4 ,5,6,7,8-HEXAHYDROPYRROLO[2,3-C]AZEPIN-2-YL]-3,5-DIHYDROXYHEPTANOIC ACID (three-letter code: HR2) (formula: C<sub>30</sub>H<sub>35</sub>FN<sub>2</sub>O<sub>5</sub>).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
3	Λ	1	Total	С	F	Ν	Ο	0	0
5	Л	1	38	30	1	2	5	0	0
3	Λ	1	Total	С	F	Ν	Ο	0	0
5	Л	1	38	30	1	2	5	0	0
3	С	1	Total	С	F	Ν	Ο	0	0
5	U	1	38	30	1	2	5	0	0
3	Л	1	Total	С	F	Ν	Ο	0	0
5	D	1	38	30	1	2	5	0	0

• Molecule 4 is water.

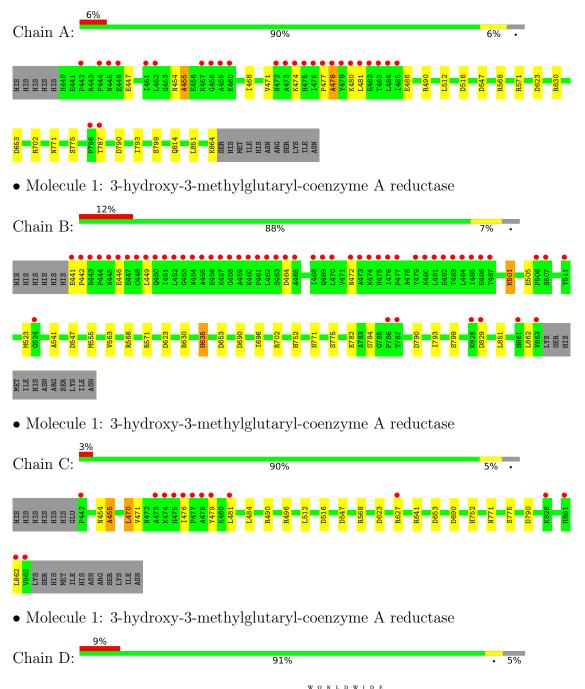
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	260	Total         O           260         260	0	0
4	В	251	Total         O           251         251	0	0
4	С	285	Total         O           285         285	0	0
4	D	285	Total O 285 285	0	0

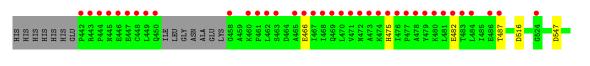


# 3 Residue-property plots (i)

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: 3-hydroxy-3-methylglutaryl-coenzyme A reductase









# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	78.72Å 133.19Å 82.67Å	Deperitor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $92.63^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	30.00 - 2.00	Depositor
Resolution (A)	34.89 - 2.00	EDS
% Data completeness	(Not available) $(30.00-2.00)$	Depositor
(in resolution range)	91.4 (34.89-2.00)	EDS
R <sub>merge</sub>	0.05	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$0.98 (at 2.00 \text{\AA})$	Xtriage
Refinement program	REFMAC	Depositor
D D.	0.224 , $0.256$	Depositor
$R, R_{free}$	0.244 , (Not available)	DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor $(Å^2)$	22.3	Xtriage
Anisotropy	0.278	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.39, $48.1$	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.47, < L^2 > = 0.30$	Xtriage
	0.023 for l,k,-h	
Estimated twinning fraction	0.037 for h,-k,-l	Xtriage
	0.033 for l,-k,h	
$\mathbf{F}_o, \mathbf{F}_c$ correlation	0.88	EDS
Total number of atoms	13820	wwPDB-VP
Average B, all atoms $(Å^2)$	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.48% 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: HR2,  $\mathrm{SO4}$ 

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	Mol Chain		lengths	Bond angles		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.28	0/3214	0.58	5/4345~(0.1%)	
1	В	0.28	0/3194	0.57	6/4319~(0.1%)	
1	С	0.27	0/3185	0.59	6/4306~(0.1%)	
1	D	0.28	0/3159	0.58	5/4269~(0.1%)	
All	All	0.28	0/12752	0.58	22/17239~(0.1%)	

There are no bond length outliers.

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

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	А	653	ASP	CB-CG-OD2	5.75	123.48	118.30
1	D	547	ASP	CB-CG-OD2	5.67	123.40	118.30
1	С	790	ASP	CB-CG-OD2	5.56	123.30	118.30
1	А	790	ASP	CB-CG-OD2	5.52	123.27	118.30
1	С	690	ASP	CB-CG-OD2	5.51	123.26	118.30

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	А	3167	0	3207	8	0
1	В	3148	0	3187	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	С	3139	0	3182	9	0
1	D	3113	0	3151	3	0
2	А	5	0	0	0	0
2	В	5	0	0	0	0
2	С	5	0	0	0	0
2	D	5	0	0	0	0
3	А	76	0	68	0	0
3	С	38	0	34	1	0
3	D	38	0	34	1	0
4	А	260	0	0	0	0
4	В	251	0	0	0	0
4	С	285	0	0	0	0
4	D	285	0	0	0	0
All	All	13820	0	12863	31	0

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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 1.

The worst 5 of 31 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:C:471:VAL:HG21	1:C:481:LEU:HD11	1.73	0.70
1:C:771:ASN:OD1	1:C:775:SER:OG	2.12	0.67
1:A:771:ASN:OD1	1:A:775:SER:OG	2.22	0.57
1:C:470:LEU:HB3	1:C:476:ILE:HG21	1.91	0.52
1:A:477:PRO:O	1:A:478:ALA:HB2	2.10	0.51

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	423/441~(96%)	402 (95%)	19 (4%)	2~(0%)	29	23	
1	В	421/441~(96%)	404 (96%)	17 (4%)	0	100	100	
1	С	420/441~(95%)	403 (96%)	15 (4%)	2~(0%)	29	23	
1	D	414/441 (94%)	401 (97%)	13 (3%)	0	100	100	
All	All	1678/1764~(95%)	1610 (96%)	64 (4%)	4 (0%)	47	44	

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	478	ALA
1	А	455	ALA
1	С	455	ALA
1	С	479	TYR

#### 5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	Perce	ntiles
1	А	339/355~(96%)	326~(96%)	13~(4%)	33	31
1	В	337/355~(95%)	324~(96%)	13~(4%)	32	30
1	С	336/355~(95%)	330~(98%)	6 (2%)	59	63
1	D	334/355~(94%)	327~(98%)	7 (2%)	53	57
All	All	1346/1420~(95%)	1307~(97%)	39~(3%)	42	43

5 of 39 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
1	С	568	ARG
1	D	487	THR
1	С	627	ARG
1	D	466	GLU
1	D	752	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 13



such sidechains are listed below:

Mol	Chain	$\mathbf{Res}$	Type
1	А	861	HIS
1	В	445	ASN
1	D	518	ASN
1	В	632	GLN
1	С	472	ASN

#### 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)

8 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	Res	Link	Bo	ond leng	ths	Bond angles		
IVIOI	Type	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	HR2	А	3001	-	35,41,41	0.88	2 (5%)	$42,\!58,\!58$	1.57	3 (7%)
2	SO4	А	2001	-	4,4,4	0.13	0	$6,\!6,\!6$	0.12	0
3	HR2	D	3004	-	35,41,41	0.89	2(5%)	$42,\!58,\!58$	1.57	3 (7%)
2	SO4	В	2002	-	4,4,4	0.15	0	$6,\!6,\!6$	0.07	0
2	SO4	С	2003	-	4,4,4	0.14	0	$6,\!6,\!6$	0.16	0
2	SO4	D	2004	-	4,4,4	0.15	0	$6,\!6,\!6$	0.16	0
3	HR2	С	3003	-	35,41,41	0.90	2(5%)	42,58,58	1.60	6 (14%)
3	HR2	А	3002	-	35,41,41	0.89	1 (2%)	42,58,58	1.55	4 (9%)



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	HR2	А	3002	-	-	4/23/39/39	0/4/4/4
3	HR2	С	3003	-	-	5/23/39/39	0/4/4/4
3	HR2	D	3004	-	-	5/23/39/39	0/4/4/4
3	HR2	А	3001	-	-	5/23/39/39	0/4/4/4

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	$\mathrm{Ideal}(\mathrm{\AA})$
3	А	3002	HR2	C17-N15	-3.30	1.36	1.43
3	D	3004	HR2	C17-N15	-3.24	1.36	1.43
3	С	3003	HR2	C17-N15	-3.21	1.36	1.43
3	А	3001	HR2	C17-N15	-3.06	1.37	1.43
3	С	3003	HR2	C13-N15	-2.02	1.34	1.37

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
3	А	3001	HR2	C3-C5-C4	6.82	112.20	103.88
3	D	3004	HR2	C3-C5-C4	6.79	112.16	103.88
3	С	3003	HR2	C3-C5-C4	6.75	112.11	103.88
3	А	3002	HR2	C3-C5-C4	6.72	112.07	103.88
3	D	3004	HR2	C20-C19-C3	-2.82	106.28	112.66

There are no chirality outliers.

5 of 19 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	С	3003	HR2	C19-C20-C21-O33
3	А	3001	HR2	C32-C17-N15-C16
3	А	3002	HR2	C28-C17-N15-C16
3	А	3002	HR2	C32-C17-N15-C16
3	С	3003	HR2	C32-C17-N15-C16

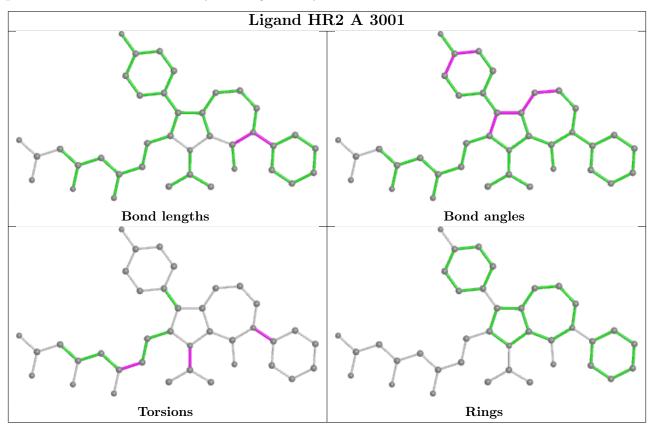
There are no ring outliers.

2 monomers are involved in 2 short contacts:

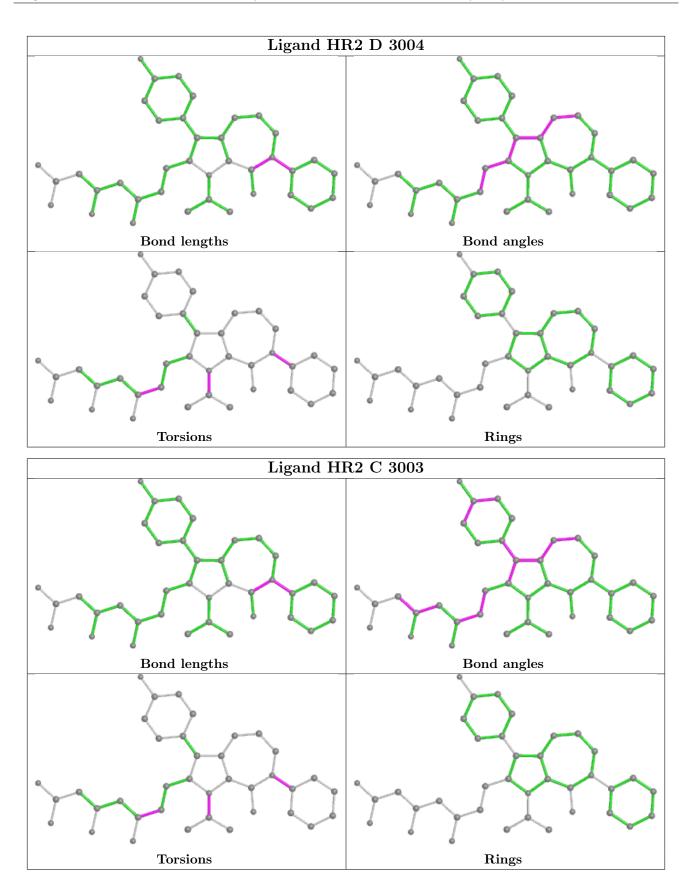


Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	3004	HR2	1	0
3	С	3003	HR2	1	0

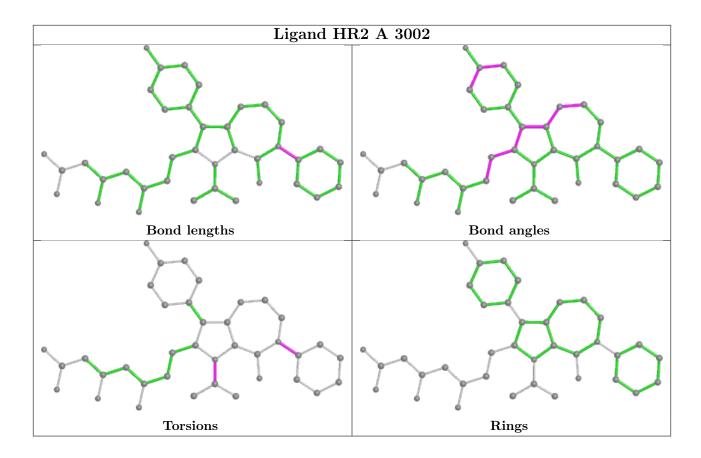
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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	$\langle RSRZ \rangle$	# RSRZ > 2	$OWAB(A^2)$	Q<0.9
1	А	425/441~(96%)	0.41	26 (6%) 21 20	20, 29, 52, 63	0
1	В	423/441 (95%)	0.68	53 (12%) 3 3	18, 28, 58, 60	0
1	С	422/441~(95%)	0.29	14 (3%) 46 45	19, 28, 40, 57	0
1	D	418/441 (94%)	0.56	40 (9%) 8 7	17, 28, 56, 61	0
All	All	1688/1764~(95%)	0.48	133 (7%) 12 11	17, 28, 55, 63	0

The worst 5 of 133 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	481	LEU	9.1
1	В	449	LEU	8.8
1	В	453	GLY	8.7
1	D	484	LEU	8.7
1	В	461	PHE	8.4

## 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.

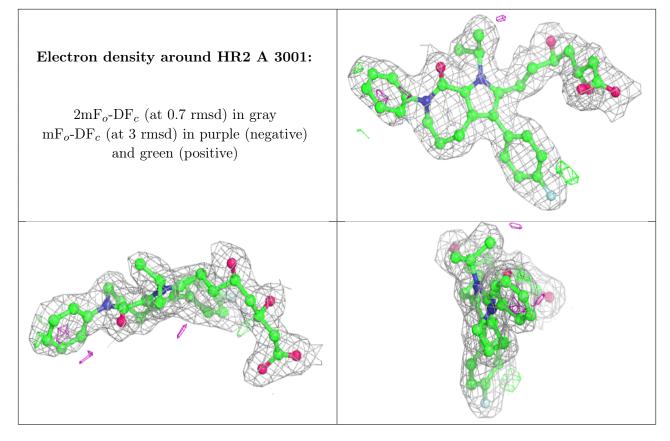
### 6.4 Ligands (i)

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.

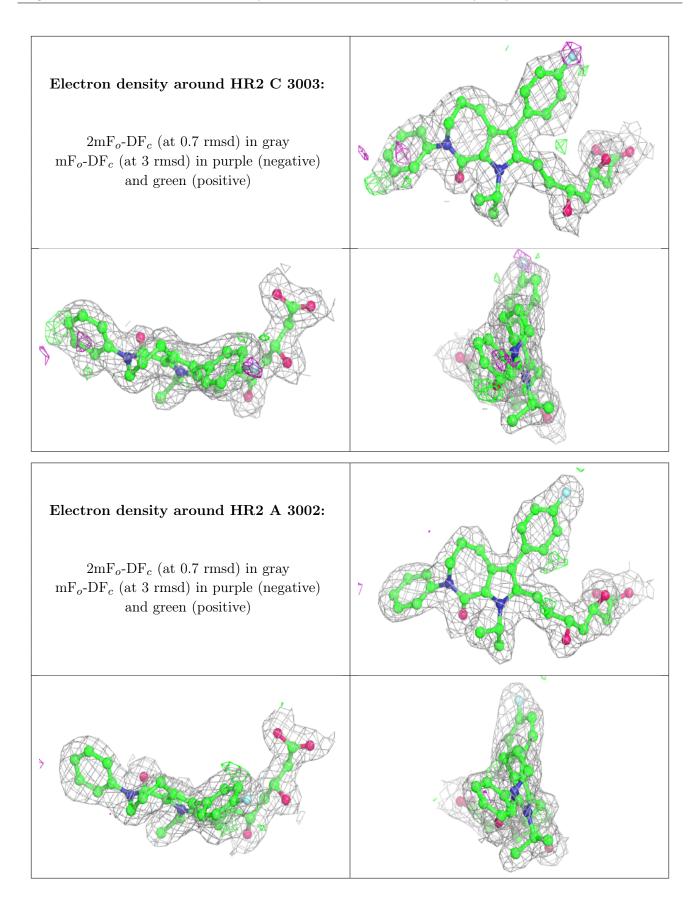


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	HR2	А	3001	38/38	0.86	0.15	$27,\!33,\!37,\!38$	0
3	HR2	С	3003	38/38	0.86	0.15	28,37,40,42	0
2	SO4	В	2002	5/5	0.87	0.17	63,63,63,63	0
3	HR2	А	3002	38/38	0.90	0.16	28,32,35,37	0
2	SO4	С	2003	5/5	0.91	0.15	46,47,47,47	0
3	HR2	D	3004	38/38	0.91	0.15	24,29,34,36	0
2	SO4	А	2001	5/5	0.93	0.14	53,53,54,54	0
2	SO4	D	2004	5/5	0.96	0.13	44,45,45,45	0

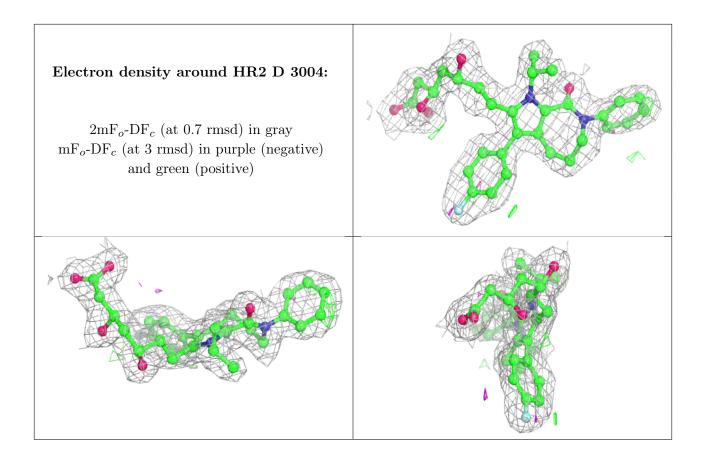
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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











## 6.5 Other polymers (i)

There are no such residues in this entry.

