

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

#### Aug 21, 2020 – 04:53 AM BST

PDB ID : 5MYM

Title: Structure of Transcriptional Regulatory Repressor Protein - EthR from My-

cobacterium Tuberculosis in complex with compound GSK2032710A at 2.28A

resolution

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Deposited on : 2017-01-27

Resolution : 2.28 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

Mogul: 1.8.5 (274361), CSD as 541 be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.13.1

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$ 

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

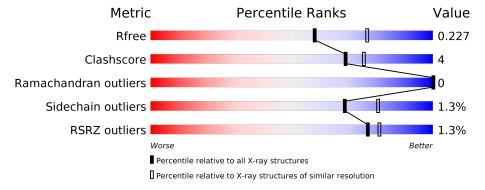
Validation Pipeline (wwPDB-VP) : 2.13.1

## 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 2.28 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
$R_{free}$	130704	6980 (2.30-2.26)
Clashscore	141614	7711 (2.30-2.26)
Ramachandran outliers	138981	7597 (2.30-2.26)
Sidechain outliers	138945	7598 (2.30-2.26)
RSRZ outliers	127900	6849 (2.30-2.26)

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 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	Quality of chain		
1	A	228	79%	7%	14%
1	В	228	82%	5%	12%
1	С	228	79%	10%	• 10%
1	D	228	80%	6%	14%



## 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 6449 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 HTH-type transcriptional regulator EthR.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	195	Total	С	N	О	S	0	0	0
1	A	190	1505	953	257	291	4	0	0	U
1	В	200	Total	С	N	О	S	0	0	0
1	Ъ	200	1536	971	267	294	4	0	0	U
1	С	205	Total	С	N	О	S	0	0	0
1		200	1567	991	272	300	4	0	0	U
1	D	196	Total	С	N	О	S	0	0	0
1	ע	190	1509	956	258	291	4		U	U

There are 52 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	MET	_	initiating methionine	UNP P9WMC1
A	-2	ASP	_	expression tag	UNP P9WMC1
A	-1	ILE	-	expression tag	UNP P9WMC1
A	0	GLU	-	expression tag	UNP P9WMC1
A	1	PHE	MET	conflict	UNP P9WMC1
A	217	GLY	-	expression tag	UNP P9WMC1
A	218	SER	_	expression tag	UNP P9WMC1
A	219	HIS	-	expression tag	UNP P9WMC1
A	220	HIS	_	expression tag	UNP P9WMC1
A	221	HIS	-	expression tag	UNP P9WMC1
A	222	HIS	_	expression tag	UNP P9WMC1
A	223	HIS	-	expression tag	UNP P9WMC1
A	224	HIS	-	expression tag	UNP P9WMC1
В	-3	MET	-	initiating methionine	UNP P9WMC1
В	-2	ASP	-	expression tag	UNP P9WMC1
В	-1	ILE	=	expression tag	UNP P9WMC1
В	0	GLU	-	expression tag	UNP P9WMC1
В	1	PHE	MET	conflict	UNP P9WMC1
В	217	GLY	-	expression tag	UNP P9WMC1
В	218	SER	-	expression tag	UNP P9WMC1
В	219	HIS	-	expression tag	UNP P9WMC1

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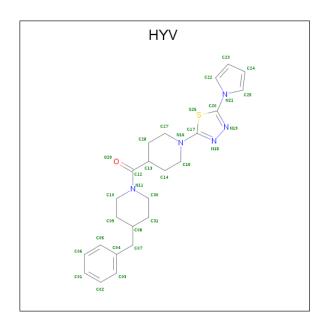


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Chain	Residue	Modelled	Actual	Comment	Reference
В	220	HIS	_	expression tag	UNP P9WMC1
В	221	HIS	_	expression tag	UNP P9WMC1
В	222	HIS	-	expression tag	UNP P9WMC1
В	223	HIS	_	expression tag	UNP P9WMC1
В	224	HIS	-	expression tag	UNP P9WMC1
С	-3	MET	_	initiating methionine	UNP P9WMC1
С	-2	ASP	-	expression tag	UNP P9WMC1
С	-1	ILE	-	expression tag	UNP P9WMC1
С	0	GLU	_	expression tag	UNP P9WMC1
С	1	PHE	MET	$\operatorname{conflict}$	UNP P9WMC1
С	217	GLY	_	expression tag	UNP P9WMC1
С	218	SER	_	expression tag	UNP P9WMC1
С	219	HIS	_	expression tag	UNP P9WMC1
С	220	HIS	_	expression tag	UNP P9WMC1
С	221	HIS	_	expression tag	UNP P9WMC1
С	222	HIS	-	expression tag	UNP P9WMC1
С	223	HIS	_	expression tag	UNP P9WMC1
С	224	HIS	-	expression tag	UNP P9WMC1
D	-3	MET	_	initiating methionine	UNP P9WMC1
D	-2	ASP	-	expression tag	UNP P9WMC1
D	-1	ILE	_	expression tag	UNP P9WMC1
D	0	GLU	_	expression tag	UNP P9WMC1
D	1	PHE	MET	conflict	UNP P9WMC1
D	217	GLY	_	expression tag	UNP P9WMC1
D	218	SER	-	expression tag	UNP P9WMC1
D	219	HIS	-	expression tag	UNP P9WMC1
D	220	HIS	-	expression tag	UNP P9WMC1
D	221	HIS	-	expression tag	UNP P9WMC1
D	222	HIS	-	expression tag	UNP P9WMC1
D	223	HIS	-	expression tag	UNP P9WMC1
D	224	HIS	-	expression tag	UNP P9WMC1

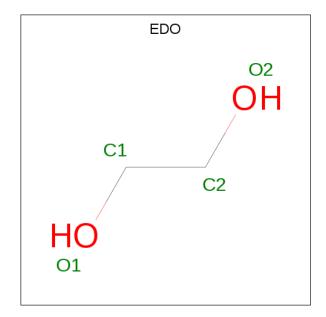
 $\bullet \ \, \text{Molecule 2 is [4-(phenylmethyl)piperidin-1-yl]-[1-(5-pyrrol-1-yl-1,3,4-thiadiazol-2-yl)piperidin-4-yl]methanone (three-letter code: HYV) (formula: $C_{24}H_{29}N_5OS$). }$ 





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
9	D	1	Total	С	N	О	S	0	0
2	Б	1	31	24	5	1	1	U	0
9	С	1	Total	С	N	О	S	0	0
2		1	31	24	5	1	1	0	U

 $\bullet$  Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $\mathrm{C_2H_6O_2}).$ 



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	1	Total C O 4 2 2	0	0
3	В	1	Total C O 4 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	С	1	Total C O 4 2 2	0	0
3	С	1	Total C O 4 2 2	0	0

### • Molecule 4 is water.

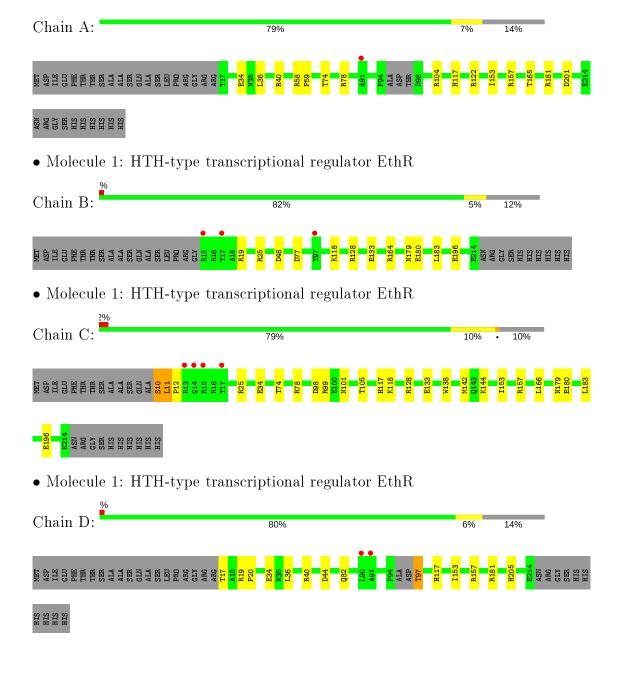
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	59	Total O 59 59	0	0
4	В	64	Total O 64 64	0	0
4	С	61	Total O 61 61	0	0
4	D	70	Total O 70 70	0	0



# 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: HTH-type transcriptional regulator EthR





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 2 1	Depositor
Cell constants	86.62Å 56.48Å 98.19Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.01^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	98.19 - 2.28	Depositor
Resolution (A)	98.19 - 2.28	EDS
% Data completeness	98.3 (98.19-2.28)	Depositor
(in resolution range)	98.3 (98.19-2.28)	EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.10 (at 2.27Å)	Xtriage
Refinement program	PHENIX	Depositor
P. P.	0.175 , $0.227$	Depositor
$R, R_{free}$	0.179 , $0.227$	DCC
$R_{free}$ test set	2174  reflections  (5.04%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	39.2	Xtriage
Anisotropy	0.243	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.32 , 25.8	EDS
L-test for twinning <sup>2</sup>	$< L >=0.51, < L^2>=0.35$	Xtriage
Estimated twinning fraction	0.487 for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	6449	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.86% of the height of the origin peak. No significant pseudotranslation is detected.

<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.



 $<sup>^{1}</sup>$ 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: EDO, HYV

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
MIOI	Chain	RMSZ	# Z >5	RMSZ	# Z  > 5
1	A	0.42	0/1536	0.61	0/2095
1	В	0.42	0/1568	0.56	0/2140
1	С	0.45	0/1600	0.58	0/2184
1	D	0.41	0/1540	0.64	0/2101
All	All	0.43	0/6244	0.60	0/8520

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 maintain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	D	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group	
1	D	97	THR	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	A	1505	0	1461	8	1
1	В	1536	0	1489	10	1
1	С	1567	0	1519	19	1
1	D	1509	0	1466	11	1
2	В	31	0	0	5	0
2	С	31	0	0	6	0
3	В	8	0	12	0	0
3	С	8	0	12	0	0
4	A	59	0	0	1	0
4	В	64	0	0	0	0
4	С	61	0	0	0	0
4	D	70	0	0	1	0
All	All	6449	0	5959	45	2

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 4.

The worst 5 of 45 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{array}{ll}  ext{Interatomic} \  ext{distance} \ ( ext{\AA}) \end{array}$	$egin{aligned}  ext{Clash} \  ext{overlap } ( ext{Å}) \end{aligned}$
1:D:17:THR:HG23	1:D:19:ARG:H	1.38	0.89
1:C:138:TRP:CZ2	1:C:142:MET:HE3	2.17	0.80
1:C:118:LYS:NZ	1:C:196:GLU:OE1	2.21	0.73
1:D:34:GLU:OE2	1:D:117:HIS:HD2	1.73	0.71
1:A:34:GLU:OE2	1:A:117:HIS:HD2	1.76	0.68

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	$egin{array}{c}  ext{Interatomic} \  ext{distance} \ ( ext{Å}) \end{array}$	$egin{aligned}  ext{Clash} \  ext{overlap } ( ext{Å}) \end{aligned}$
1:B:19:ARG:NH2	1:D:20:PRO:O[2_555]	2.06	0.14
1:A:165:THR:O	1:C:25:ARG:NH1[2_566]	2.18	0.02

## 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 r	number	of	residues	for	which	the	backbone	conformation	was
analysed, and the total numb	er of	residues								

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	entiles
1	A	191/228 (84%)	188 (98%)	3 (2%)	0	100	100
1	В	198/228 (87%)	196 (99%)	2 (1%)	0	100	100
1	С	203/228 (89%)	200 (98%)	3 (2%)	0	100	100
1	D	192/228 (84%)	189 (98%)	3 (2%)	0	100	100
All	All	784/912 (86%)	773 (99%)	11 (1%)	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	154/184 (84%)	154 (100%)	0	100 100
1	В	155/184 (84%)	152 (98%)	3 (2%)	57 71
1	С	158/184 (86%)	153 (97%)	5 (3%)	39 52
1	D	154/184 (84%)	154 (100%)	0	100 100
All	All	621/736 (84%)	613 (99%)	8 (1%)	69 80

5 of 8 residues with a non-rotameric sidechain are listed below:

Mol	Chain	${f Res}$	Type
1	С	10	SER
1	С	144	LYS
1	С	99	ARG
1	В	133	GLU
1	С	11	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 8 such sidechains are listed below:



Mol	Chain	Res	Type
1	A	191	GLN
1	D	117	HIS
1	С	108	ASN
1	A	117	HIS
1	С	88	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)

6 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	Mol Type Chain		Res	Link	B	ond leng	gths	В	ond ang	gles
MIGI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
3	EDO	С	302	-	3,3,3	0.56	0	2,2,2	0.37	0
2	HYV	В	301	_	30,35,35	2.88	12 (40%)	36,48,48	2.17	10 (27%)
2	HYV	С	301	-	30,35,35	2.88	11 (36%)	36,48,48	2.26	9 (25%)
3	EDO	В	303	-	3,3,3	0.56	0	2,2,2	0.26	0
3	EDO	С	303	-	3,3,3	0.48	0	2,2,2	0.35	0
3	EDO	В	302	-	3,3,3	0.47	0	2,2,2	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
3	EDO	С	302	_	-	0/1/1/1	-
2	HYV	В	301	-	-	5/14/40/40	0/5/5/5
2	HYV	С	301	_	-	5/14/40/40	0/5/5/5
3	EDO	В	303	_	-	1/1/1/1	-
3	EDO	С	303	_	-	0/1/1/1	-
3	EDO	В	302	_	-	0/1/1/1	_

The worst 5 of 23 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	${ m Observed}( m \AA)$	$Ideal(\AA)$
2	В	301	HYV	C17-N16	8.35	1.45	1.32
2	С	301	HYV	C17-N16	8.06	1.44	1.32
2	С	301	HYV	C12-N11	7.30	1.45	1.34
2	В	301	HYV	C12-N11	7.10	1.45	1.34
2	С	301	HYV	N 19-N 18	6.60	1.50	1.37

The worst 5 of 19 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	С	301	HYV	C09-C10-N11	7.95	122.90	110.82
2	В	301	HYV	C15-C14-C13	6.78	121.69	110.41
2	С	301	HYV	C27-C28-C13	6.64	121.47	110.41
2	В	301	HYV	C31-C30-N11	6.20	120.24	110.82
2	С	301	HYV	C31-C30-N11	-3.85	104.97	110.82

There are no chirality outliers.

5 of 11 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	301	HYV	S26-C17-N16-C15
2	В	301	HYV	C04-C07-C08-C31
2	С	301	HYV	S26-C17-N16-C27
2	С	301	HYV	C04-C07-C08-C09
2	В	301	HYV	C04-C07-C08-C09

There are no ring outliers.

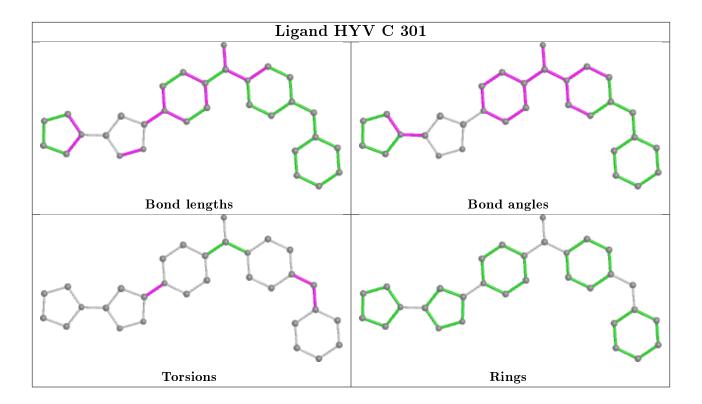
2 monomers are involved in 11 short contacts:



Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	301	HYV	5	0
2	С	301	HYV	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 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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q < 0.9
1	A	195/228~(85%)	-0.53	1 (0%) 91 93	30, 42, 71, 116	0
1	В	$200/228 \ (87\%)$	-0.51	3 (1%) 73 78	28, 42, 76, 110	0
1	С	205/228~(89%)	-0.41	4 (1%) 65 70	28, 43, 94, 109	0
1	D	$196/228 \; (85\%)$	-0.47	2 (1%) 82 86	29, 43, 69, 110	0
All	All	796/912 (87%)	-0.48	10 (1%) 77 81	28, 43, 76, 116	0

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	$\operatorname{Res}$	Type	RSRZ
1	С	14	GLY	5.2
1	С	17	THR	4.1
1	В	15	ARG	3.0
1	В	97	THR	2.7
1	С	13	ARG	2.3

### 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.

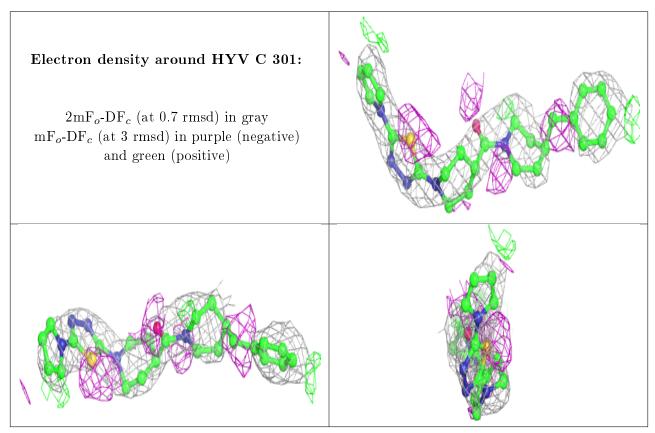
## 6.4 Ligands (i)

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.

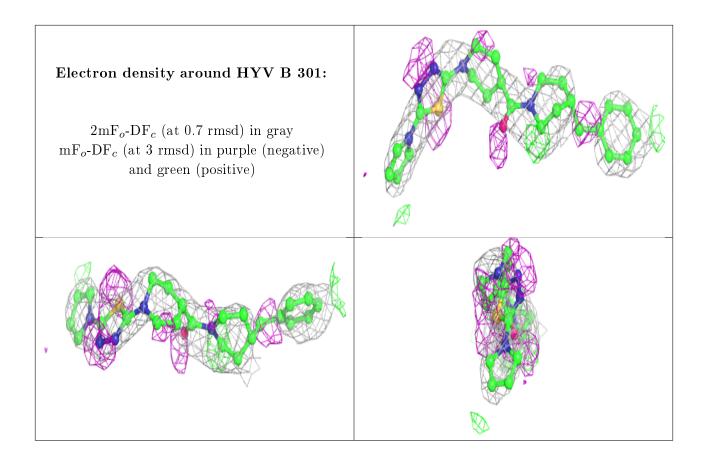


Mol	Type	Chain	${f Res}$	Atoms	RSCC	RSR	${f B-factors(\AA^2)}$	Q<0.9
3	EDO	С	302	4/4	0.84	0.16	52,57,58,65	0
3	EDO	В	303	4/4	0.85	0.14	57,58,61,64	0
2	HYV	С	301	31/31	0.86	0.30	43,69,85,96	0
2	HYV	В	301	31/31	0.88	0.30	34,71,87,93	0
3	EDO	С	303	4/4	0.97	0.12	39,43,46,52	0
3	EDO	В	302	4/4	0.97	0.09	44,45,45,52	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.

