

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

#### Dec 17, 2023 – 07:05 PM EST

PDB ID : 1GJ4

Title: SELECTIVITY AT S1, H2O DISPLACEMENT, UPA, TPA,

SER190/ALA190 PROTEASE, STRUCTURE-BASED DRUG DESIGN

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Deposited on : 2001-04-27

Resolution : 1.81 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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

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

MolProbity: 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.36

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)

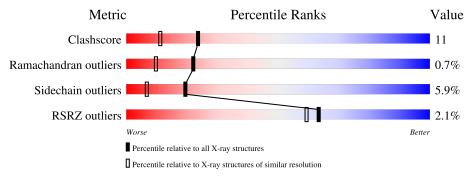
Validation Pipeline (wwPDB-VP) : 2.36

## 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 1.81 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	Similar resolution
Wiedlie	(# Entries)	$(\#  ext{Entries},  ext{ resolution range}( ext{Å}))$
Clashscore	141614	8401 (1.84-1.80)
Ramachandran outliers	138981	8290 (1.84-1.80)
Sidechain outliers	138945	8290 (1.84-1.80)
RSRZ outliers	127900	7371 (1.84-1.80)

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	L	36	6%	44%		17%	14%	·	22'	%
2	Н	258	.%		76%				16%	5% • •
3	I	11	9%		82%				1	18%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:



Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	132	Н	410	-	-	X	-



# 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 5591 atoms, of which 2910 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 THROMBIN.

Mol	Chain	Residues		Atoms					ZeroOcc	AltConf	Trace
1	L	28	Total	С	Н	N	0	S	0	0	0
	_		460	145	229	37	48	1			

• Molecule 2 is a protein called THROMBIN.

$\mathbf{N}$	<b>Iol</b>	Chain	Residues			Atom	ıs			ZeroOcc	AltConf	Trace
	2	Н	251	Total 4087	C 1307	H 2039	N 362	O 363	S 16	0	4	0

• Molecule 3 is a protein called ACETYL HIRUDIN.

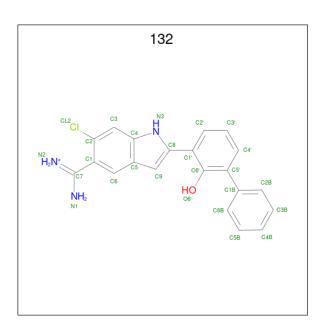
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
3	I	11	Total 188	C 64	H 84	N 12	O 27	S 1	0	0	0

• Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

$\mathbf{Mol}$	Chain	Residues	Atoms	ZeroOcc	AltConf
4	Н	1	Total Na 1 1	0	0

• Molecule 5 is 6-CHLORO-2-(2-HYDROXY-BIPHENYL-3-YL)-1H-INDOLE-5-CARBOXA MIDINE (three-letter code: 132) (formula: C<sub>21</sub>H<sub>17</sub>ClN<sub>3</sub>O).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
5	П	1	Total	С	Cl	Н	N	О	0	0
5	Π	1	42	21	1	16	3	1	U	

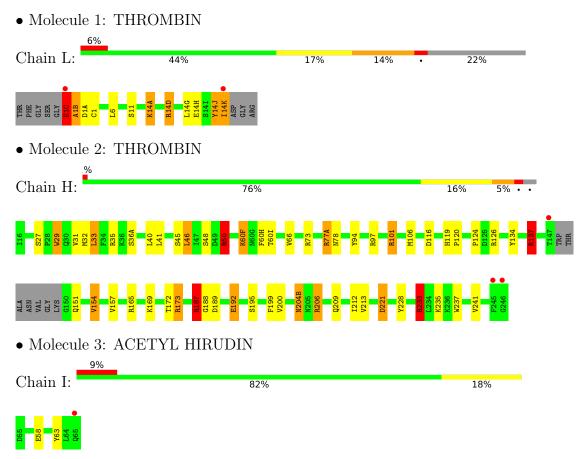
### • Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	L	26	Total H O 78 52 26	0	0
6	Н	223	Total H O 675 450 225	0	6
6	I	20	Total H O 60 40 20	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.





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	71.37Å 72.09Å 72.84Å	Donositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 100.97° 90.00°	Depositor
Resolution (Å)	7.00 - 1.81	Depositor
Resolution (A)	38.70 - 1.56	EDS
% Data completeness	59.1 (7.00-1.81)	Depositor
(in resolution range)	41.9 (38.70-1.56)	EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.43 (at 1.56Å)	Xtriage
Refinement program	X-PLOR 3.851	Depositor
D D.	0.202 , 0.236	Depositor
$R, R_{free}$	0.215 , (Not available)	DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	11.6	Xtriage
Anisotropy	0.186	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.32, 67.9	EDS
L-test for twinning <sup>2</sup>	$ < L > = 0.47, < L^2> = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	5591	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.61% 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>&</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: TYS, 132, NA

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	Bo	nd lengths	Bo	ond angles
MIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	L	1.81	$4/233 \ (1.7\%)$	1.57	3/310 (1.0%)
2	Н	1.39	$4/2117 \ (0.2\%)$	1.51	21/2856 (0.7%)
3	I	1.55	0/88	1.36	0/115
All	All	1.44	8/2438 (0.3%)	1.51	24/3281 (0.7%)

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	L	0	1
2	Н	0	8
All	All	0	9

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}( ext{\AA})$
2	Н	192	GLU	CD-OE2	-9.21	1.15	1.25
1	L	1(C)	GLU	CD-OE2	-8.85	1.16	1.25
1	L	14(H)	GLU	CD-OE2	-7.91	1.17	1.25
2	Н	27	SER	CA-CB	6.60	1.62	1.52
1	L	1(C)	GLU	CD-OE1	-5.98	1.19	1.25

The worst 5 of 24 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\mathrm{Ideal}(^{o})$
2	Н	77(A)	ARG	NE-CZ-NH2	-9.31	115.64	120.30
2	Н	35	ARG	NE-CZ-NH2	-8.21	116.20	120.30
2	Н	192	GLU	OE1-CD-OE2	-7.79	113.95	123.30

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Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
1	L	1(C)	GLU	CA-C-O	-6.81	105.79	120.10
2	Н	206	ARG	NE-CZ-NH2	-6.66	116.97	120.30

There are no chirality outliers.

5 of 9 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	Н	101	ARG	Sidechain
2	Н	50	ARG	Sidechain
2	Н	73	ARG	Sidechain
2	Н	97	ARG	Sidechain
1	L	14(D)	ARG	Sidechain

### 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	L	231	229	231	14	0
2	Н	2048	2039	2028	41	2
3	I	104	84	80	1	0
4	Н	1	0	0	0	0
5	Н	26	16	17	13	0
6	Н	225	450	0	6	9
6	I	20	40	0	0	0
6	L	26	52	0	2	1
All	All	2681	2910	2356	53	9

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 11.

The worst 5 of 53 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
2:H:77(A):ARG:O	6:H:413:HOH:O	1.70	1.08
2:H:60(F):LYS:HE2	5:H:410:132:H4'	1.50	0.92

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Atom-1	Atom-2	Interatomic	Clash	
Atom-1	Atom-2	$\operatorname{distance}\ ( ext{Å})$	overlap (Å)	
2:H:60(F):LYS:HE2	5:H:410:132:C4B	2.01	0.89	
2:H:60(F):LYS:CE	5:H:410:132:H4'	2.15	0.75	
2:H:60(F):LYS:HE2	5:H:410:132:C5B	2.17	0.74	

The worst 5 of 9 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	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
6:H:414:HOH:H2	6:H:414:HOH:H2[2_555]	0.38	1.22
6:H:414:HOH:O	6:H:414:HOH:H2[2_555]	0.82	0.78
6:H:414:HOH:O	6:H:414:HOH:O[2_555]	1.64	0.56
6:H:413:HOH:H1	6:H:413:HOH:H2[2_555]	1.07	0.53
2:H:169:LYS:HE2	6:H:559:HOH:H1[2_656]	1.19	0.41

### 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	L	26/36~(72%)	24 (92%)	1 (4%)	1 (4%)	3 0
2	Н	251/258 (97%)	227 (90%)	22 (9%)	2 (1%)	19 7
3	I	8/11 (73%)	6 (75%)	2 (25%)	0	100 100
All	All	285/305 (93%)	257 (90%)	25 (9%)	3 (1%)	22 4

#### All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	L	1(B)	ALA
2	Н	126[A]	ARG
2	Н	126[B]	ARG



#### 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	Perce	ntiles
1	L	26/31~(84%)	21 (81%)	5 (19%)	1	0
2	Н	223/224 (100%)	213 (96%)	10 (4%)	27	12
3	I	10/10 (100%)	10 (100%)	0	100	100
All	All	259/265 (98%)	244 (94%)	15 (6%)	19	7

5 of 15 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	Н	50	ARG
2	Н	204(B)	ASN
2	Н	60(F)	LYS
2	Н	241	VAL
2	Н	154	VAL

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

Mol	Chain	Res	Type
2	Н	204(B)	ASN
2	Н	209	GLN
3	I	65	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)

1 non-standard protein/DNA/RNA residue is 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	tes Link	Bo	ond leng	ths	В	Bond angles		
						Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2	
	3	TYS	I	63	3	15,16,17	2.63	2 (13%)	18,22,24	1.26	3 (16%)	

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	$\operatorname{Res}$	Link	Chirals	Torsions	Rings
3	TYS	I	63	3	=	0/10/11/13	0/1/1/1

#### All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(A)
3	I	63	TYS	OH-S	-9.17	1.44	1.58
3	I	63	TYS	OH-CZ	-3.06	1.37	1.42

#### All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	I	63	TYS	O2-S-O1	-2.72	101.31	112.22
3	I	63	TYS	OH-S-O1	2.46	114.87	107.71
3	I	63	TYS	O3-S-OH	2.04	110.75	105.83

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.5 Carbohydrates (i)

There are no monosaccharides in this entry.



### 5.6 Ligand geometry (i)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.

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		
				nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
	5	132	Н	410	-	26,29,29	2.02	10 (38%)	29,42,42	1.72	7 (24%)

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.

$\mathbf{Mol}$	Type	Chain	$\operatorname{Res}$	Link	Chirals	Torsions	Rings
5	132	Н	410	-	-	3/3/12/12	0/4/4/4

The worst 5 of 10 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}( ext{\AA})$
5	Н	410	132	C1-C7	-5.49	1.39	1.48
5	Н	410	132	C4B-C3B	-3.57	1.28	1.38
5	Н	410	132	C3-C2	3.13	1.41	1.36
5	Н	410	132	C5B-C4B	2.76	1.45	1.38
5	Н	410	132	C2-CL2	2.58	1.79	1.73

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

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$Ideal(^{o})$
5	Н	410	132	C3-C2-C1	-4.78	118.51	121.91
5	Н	410	132	C5'-C6'-C1'	-2.94	117.97	122.17
5	Н	410	132	C4B-C5B-C6B	-2.85	116.45	120.44
5	Н	410	132	C4'-C5'-C6'	2.55	120.57	117.30
5	Н	410	132	C9-C5-C4	2.42	108.39	106.27

There are no chirality outliers.

All (3) torsion outliers are listed below:



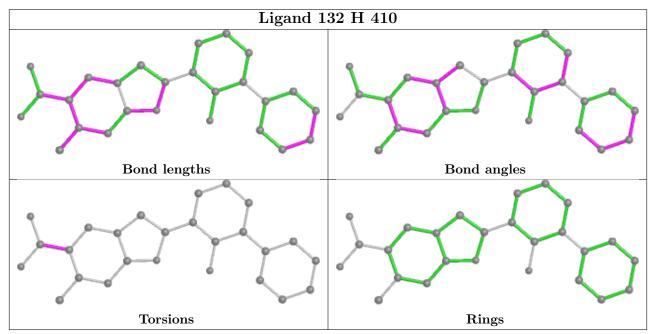
Mol	Chain	Res	Type	Atoms
5	Н	410	132	C6-C1-C7-N1
5	Н	410	132	C2-C1-C7-N1
5	Н	410	132	C6-C1-C7-N2

There are no ring outliers.

1 monomer is involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	Н	410	132	13	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	L	28/36 (77%)	-0.17	2 (7%) 16 12	11, 22, 47, 62	5 (17%)
2	Н	251/258 (97%)	-0.51	3 (1%) 79 76	3, 24, 44, 58	24 (9%)
3	I	10/11 (90%)	0.38	1 (10%) 7 5	38, 47, 53, 53	4 (40%)
All	All	289/305 (94%)	-0.45	6 (2%) 63 59	3, 25, 47, 62	33 (11%)

The worst 5 of 6 RSRZ outliers are listed below:

Mol	Chain	$\operatorname{Res}$	Type	RSRZ	
1	L	1(C)	GLU	8.9	
1	L	14(K)	ILE	5.3	
2	Н	246	GLY	3.2	
2	Н	245	PHE	2.6	
3	I	65	GLN	2.2	

### 6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	TYS	I	63	16/17	0.95	0.10	27,38,50,52	0

## 6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

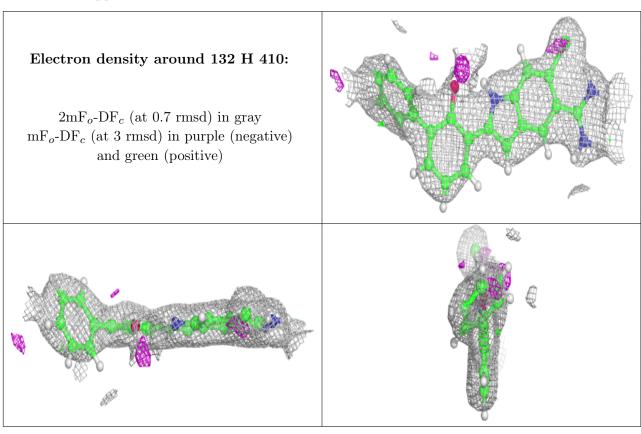


## 6.4 Ligands (i)

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
5	132	Н	410	26/26	0.87	0.09	17,29,36,37	42
4	NA	Н	409	1/1	0.93	0.05	35,35,35,35	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.

