

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

#### Oct 15, 2023 – 09:35 AM EDT

PDB ID : 8D6N

Title : Q108K:K40L:T53A:R58L:Q38F:Q4F mutant of hCRBPII bound to synthetic

fluorophore CM1V

Authors: Bingham, C.R.; Geiger, J.H.; Borhan, B.

Deposited on : 2022-06-06

Resolution : 1.42 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
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 (1)) 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)

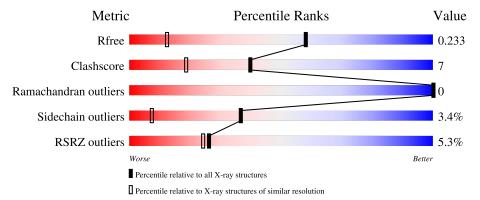
Validation Pipeline (wwPDB-VP) : 2.36

### 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 1.42 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{\rm A})}) \end{array}$
$R_{free}$	130704	2579 (1.44-1.40)
Clashscore	141614	2696 (1.44-1.40)
Ramachandran outliers	138981	2632 (1.44-1.40)
Sidechain outliers	138945	2631 (1.44-1.40)
RSRZ outliers	127900	2528 (1.44-1.40)

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		
			5%		
1	A	133	80%	19%	•

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
2	ACT	A	201	-	-	X	-





 $Continued\ from\ previous\ page...$ 

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	GOL	A	207	-	-	X	-



### 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 1247 atoms, of which 20 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.

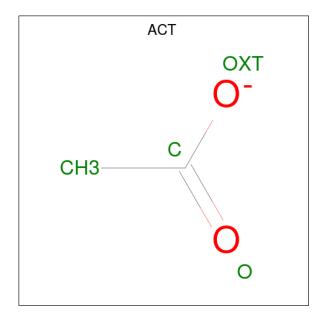
• Molecule 1 is a protein called Retinol-binding protein 2.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	133	Total 1097	C 699	N 182	O 211	S 5	0	1	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	4	PHE	GLN	engineered mutation	UNP P50120
A	38	PHE	GLN	engineered mutation	UNP P50120
A	A 40 LEU LYS		LYS	engineered mutation	UNP P50120
A	53	ALA	THR	engineered mutation	UNP P50120
A	58	LEU	ARG	engineered mutation	UNP P50120
A	108	LYS	GLN	engineered mutation	UNP P50120

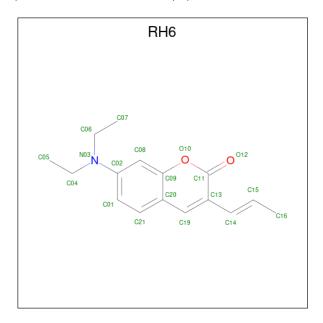
• Molecule 2 is ACETATE ION (three-letter code: ACT) (formula: C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>).





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

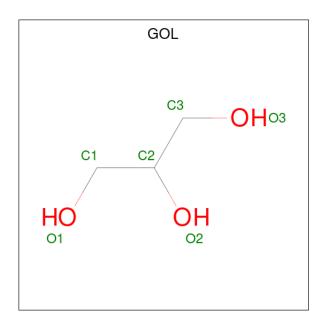
• Molecule 3 is (2E)-3-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]prop-2-enal, bound form (three-letter code: RH6) (formula:  $C_{16}H_{19}NO_2$ ).



Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf
2	Λ	1	Total	С	Н	N	О	0	0
3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	35	16	16	1	2	U		

 $\bullet$  Molecule 4 is GLYCEROL (three-letter code: GOL) (formula:  $\mathrm{C_3H_8O_3}).$ 

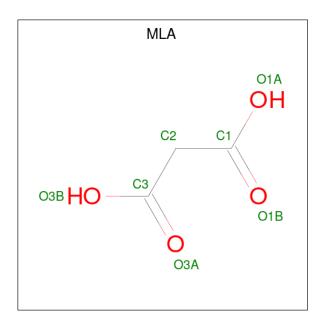




Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 6 3 3	0	0
4	A	1	Total C O 6 3 3	0	0
4	A	1	Total C O 6 3 3	0	0
4	A	1	Total C O 6 3 3	0	0
4	A	1	Total C O 6 3 3	0	0
4	A	1	Total C O 6 3 3	0	0
4	A	1	Total C O 6 3 3	0	0

 $\bullet$  Molecule 5 is MALONIC ACID (three-letter code: MLA) (formula:  $C_3H_4O_4$ ).





Γ	Mol	Chain	Residues	${f Atoms}$				ZeroOcc	AltConf
	5	A	1	Total 9		H 2		0	0
	5	A	1	Total 9	C 3	H 2	O 4	0	0

#### • Molecule 6 is water.

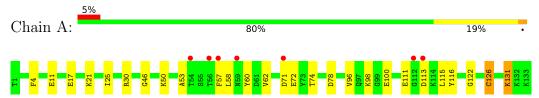
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	43	Total O 43 43	0	0



# 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: Retinol-binding protein 2





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	29.61Å 67.11Å 63.90Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.11^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	33.55 - 1.42	Depositor
resolution (A)	33.55 - 1.42	EDS
% Data completeness	97.3 (33.55-1.42)	Depositor
(in resolution range)	97.3 (33.55-1.42)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	6.83  (at  1.42Å)	Xtriage
Refinement program	PHENIX 1.16_3549	Depositor
$R, R_{free}$	0.213 , $0.233$	Depositor
it, it <sub>free</sub>	0.213 , $0.233$	DCC
$R_{free}$ test set	1987 reflections $(8.66\%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	16.2	Xtriage
Anisotropy	0.497	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.45, 54.7	EDS
L-test for twinning <sup>2</sup>	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.033 for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	1247	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 14.78% 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: MLA, ACT, RH6, GOL

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	Boı	nd lengths	Bond angles		
		RMSZ	# Z  > 5	RMSZ	# Z >5	
1	A	0.43	1/1121 (0.1%)	0.62	0/1510	

#### All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}( ext{\AA})$
1	A	126	CYS	CB-SG	-5.32	1.73	1.81

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	1097	0	1070	16	3
2	A	12	0	9	2	0
3	A	19	16	0	0	0
4	A	42	0	56	5	2
5	A	14	4	4	1	1
6	A	43	0	0	1	0
All	All	1227	20	1139	17	4

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 7.



All (17) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash	
Atom-1	Atom-2	${ m distance}({ m \AA})$	overlap(A)	
1:A:96[A]:VAL:HG21	4:A:207:GOL:H31	1.66	0.77	
4:A:207:GOL:H32	6:A:325:HOH:O	1.93	0.67	
1:A:122:GLY:HA3	4:A:210:GOL:H2	1.88	0.56	
1:A:53:ALA:HB3	1:A:60:TYR:HB3	1.91	0.53	
1:A:57:PHE:HD2	1:A:58:LEU:HD22	1.75	0.52	
1:A:25:ILE:HD11	1:A:78:ASP:HB3	1.93	0.50	
1:A:57:PHE:CD2	1:A:58:LEU:HD22	2.47	0.49	
1:A:115:LEU:C	1:A:115:LEU:HD23	2.34	0.48	
1:A:21:LYS:HG2	4:A:209:GOL:H12	1.95	0.48	
1:A:62:VAL:HG11	2:A:201:ACT:H3	1.98	0.46	
1:A:11:GLU:HG2	1:A:131:LYS:HG2	1.97	0.46	
1:A:111:GLU:HB2	1:A:116:TYR:CE1	2.50	0.46	
1:A:72:GLU:OE2	2:A:201:ACT:O	2.35	0.44	
1:A:74:THR:HA	4:A:213:GOL:H12	1.98	0.44	
1:A:4:PHE:CD1	1:A:4:PHE:N	2.88	0.41	
1:A:100:GLU:O	5:A:211:MLA:HC21	2.21	0.41	
1:A:17:GLU:HG3	1:A:30:ARG:HD3	2.03	0.41	

All (4) 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)	
4:A:207:GOL:O3	4:A:207:GOL:O3[2_655]	2.02	0.18	
1:A:46:GLY:N	5:A:211:MLA:O1B[3_545]	2.07	0.13	
1:A:98:LYS:NZ	4:A:207:GOL:O1[2_655]	2.10	0.10	
1:A:71:ASP:OD1	1:A:71:ASP:OD1[2_555]	2.12	0.08	

### 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	132/133 (99%)	128 (97%)	4 (3%)	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	Analysed Rotameric		Percentiles	
1	A	120/119 (101%)	116 (97%)	4 (3%)	38 8	

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	50	LYS
1	A	113	ASP
1	A	126	CYS
1	A	131	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

#### 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)

13 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	Trino	Chain	Dag	Link	Во	ond leng	ths	В	ond ang	les
Mol	Type   Chain	Res	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2	
5	MLA	A	212	-	6,6,6	1.35	0	7,7,7	1.27	0
4	GOL	A	207	-	5,5,5	0.95	0	5,5,5	0.99	0
5	MLA	A	211	-	6,6,6	1.37	0	7,7,7	1.42	1 (14%)
2	ACT	A	201	-	3,3,3	1.37	0	3,3,3	1.34	0
4	GOL	A	213	-	5,5,5	0.46	0	5,5,5	0.64	0
4	GOL	A	210	-	5,5,5	0.94	0	5,5,5	0.94	0
4	GOL	A	203	-	5,5,5	0.89	0	5,5,5	0.96	0
2	ACT	A	206	-	3,3,3	1.30	0	3,3,3	1.41	0
4	GOL	A	209	-	5,5,5	0.94	0	5,5,5	0.95	0
4	GOL	A	205	-	5,5,5	0.90	0	5,5,5	1.00	0
3	RH6	A	202	1	20,20,20	1.59	4 (20%)	25,27,27	1.82	7 (28%)
2	ACT	A	204	-	3,3,3	1.15	0	3,3,3	1.43	0
4	GOL	A	208	-	5,5,5	0.91	0	5,5,5	0.95	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
5	MLA	A	212	-	-	2/4/4/4	-
4	GOL	A	207	-	-	2/4/4/4	-
5	MLA	A	211	-	-	1/4/4/4	-
4	GOL	A	213	-	-	4/4/4/4	-
4	GOL	A	210	-	-	4/4/4/4	-
4	GOL	A	203	-	-	0/4/4/4	-
4	GOL	A	209	ı	-	4/4/4/4	-
4	GOL	A	205	-	-	4/4/4/4	-
3	RH6	A	202	1	-	0/11/11/11	0/2/2/2
4	GOL	A	208	-	-	2/4/4/4	-



All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}( ext{\AA})$
3	A	202	RH6	O10-C09	-3.42	1.33	1.38
3	A	202	RH6	O10-C11	-3.29	1.33	1.38
3	A	202	RH6	C02-N03	2.44	1.45	1.38
3	A	202	RH6	C19-C13	2.15	1.41	1.37

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	A	202	RH6	O12-C11-C13	-4.27	121.48	126.53
3	A	202	RH6	O10-C11-C13	3.56	120.51	117.60
3	A	202	RH6	O10-C09-C08	3.30	120.75	115.79
3	A	202	RH6	C19-C13-C11	-2.66	117.32	119.40
3	A	202	RH6	C02-C08-C09	2.45	124.23	120.46
3	A	202	RH6	C16-C15-C14	-2.43	120.55	125.34
3	A	202	RH6	C01-C02-C08	-2.33	114.43	119.07
5	A	211	MLA	O3B-C3-C2	2.04	121.04	114.54

There are no chirality outliers.

All (23) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	205	GOL	O1-C1-C2-C3
4	A	207	GOL	C1-C2-C3-O3
4	A	208	GOL	O1-C1-C2-C3
4	A	210	GOL	O1-C1-C2-C3
4	A	210	GOL	C1-C2-C3-O3
4	A	213	GOL	C1-C2-C3-O3
4	A	205	GOL	O1-C1-C2-O2
4	A	205	GOL	C1-C2-C3-O3
4	A	209	GOL	O1-C1-C2-C3
4	A	209	GOL	C1-C2-C3-O3
4	A	213	GOL	O1-C1-C2-C3
4	A	207	GOL	O2-C2-C3-O3
4	A	208	GOL	O1-C1-C2-O2
4	A	209	GOL	O1-C1-C2-O2
4	A	213	GOL	O1-C1-C2-O2
4	A	205	GOL	O2-C2-C3-O3
4	A	210	GOL	O1-C1-C2-O2
4	A	210	GOL	O2-C2-C3-O3
4	A	213	GOL	O2-C2-C3-O3
5	A	212	MLA	O1B-C1-C2-C3

Continued on next page...



Continued from previous page...

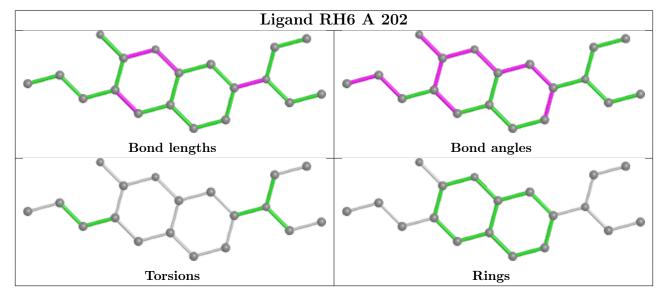
Mol	Chain	Res	Type	Atoms
5	A	212	MLA	O1A-C1-C2-C3
4	A	209	GOL	O2-C2-C3-O3
5	A	211	MLA	C1-C2-C3-O3A

There are no ring outliers.

6 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	207	GOL	2	2
5	A	211	MLA	1	1
2	A	201	ACT	2	0
4	A	213	GOL	1	0
4	A	210	GOL	1	0
4	A	209	GOL	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	<RSRZ $>$	$\#\mathrm{RSRZ}{>}2$		$OWAB(A^2)$	Q < 0.9	
1	A	133/133 (100%)	0.57	7 (5%)	26	24	12, 20, 31, 39	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	57	PHE	5.5
1	A	54	THR	3.8
1	A	112	GLY	3.3
1	A	113	ASP	2.8
1	A	59	ASN	2.6
1	A	56	THR	2.6
1	A	71	ASP	2.2

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

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

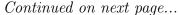
#### 6.3 Carbohydrates (i)

There are no 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.

$\mathbf{Mol}$	$\mathbf{Type}$	Chain	$\operatorname{Res}$	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
4	GOL	A	208	6/6	0.51	0.25	34,38,40,42	0

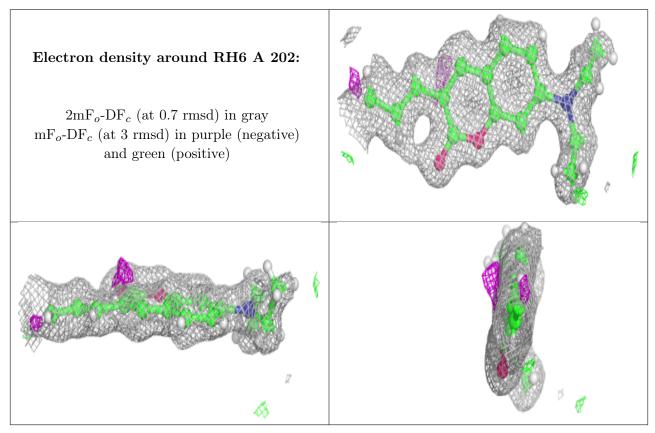




Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
5	MLA	A	211	7/7	0.61	0.38	30,40,48,48	0
4	GOL	A	205	6/6	0.70	0.25	41,42,43,44	0
2	ACT	A	204	4/4	0.73	0.13	34,39,41,45	0
4	GOL	A	210	6/6	0.76	0.21	31,36,38,38	0
4	GOL	A	207	6/6	0.76	0.30	29,35,36,37	0
5	MLA	A	212	7/7	0.79	0.32	35,39,47,47	0
4	GOL	A	209	6/6	0.83	0.19	27,36,38,43	0
4	GOL	A	203	6/6	0.85	0.13	22,25,31,37	0
2	ACT	A	201	4/4	0.86	0.12	20,23,23,23	0
4	GOL	A	213	6/6	0.86	0.22	28,30,31,37	0
2	ACT	A	206	4/4	0.89	0.17	34,35,40,43	0
3	RH6	A	202	19/19	0.91	0.08	15,22,42,42	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.

