

wwPDB X-ray Structure Validation Summary Report (i)

Apr 19, 2023 – 10:23 am BST

PDB ID : 8COJ

Title : Crystal structure of human soluble adenylyl cyclase catalytic domain in com-

plex with the inhibitor TDI-10228

Authors: Steegborn, C.; Fushimi, M.

Deposited on : 2023-02-28

Resolution : 2.10 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 (1)) were used in the production of this report:

MolProbity : 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.32.2buster-report : 1.1.7 (2018)

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

 $Refmac \quad : \quad 5.8.0158$

 $\begin{tabular}{lll} CCP4 & : & 7.0.044 & (Gargrove) \end{tabular}$

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

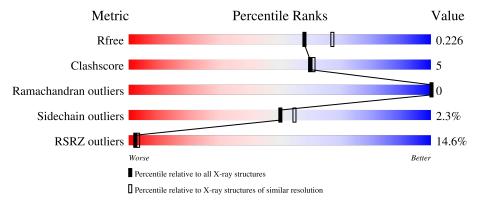
Validation Pipeline (wwPDB-VP) : 2.32.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY\ DIFFRACTION$

The reported resolution of this entry is 2.10 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	130704	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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					
			14%					
1	A	475	87%	8% • •				



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 7462 atoms, of which 3653 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 Adenylate cyclase type 10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	A	454	Total 7199	C 2343	H 3577	N 587	O 657	S 35	0	7	0

There are 6 discrepancies between the modelled and reference sequences:

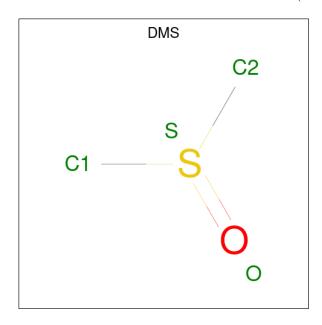
Chain	Residue	Modelled	Actual	Comment	Reference
A	470	HIS	-	expression tag	UNP Q96PN6
A	471	HIS	-	expression tag	UNP Q96PN6
A	472	HIS	-	expression tag	UNP Q96PN6
A	473	HIS	-	expression tag	UNP Q96PN6
A	474	HIS	-	expression tag	UNP Q96PN6
A	475	HIS	-	expression tag	UNP Q96PN6

• Molecule 2 is 4-chloranyl-6-[4-[(3-fluorophenyl)methyl]-1-methyl-pyrazol-3-yl]pyrimidin-2-a mine (three-letter code: VE1) (formula: $C_{15}H_{13}ClFN_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
2	A	1	Total 35	C 15	_	_	H 13	N 5	0	0

 \bullet Molecule 3 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: $\mathrm{C_2H_6OS}).$



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
3	Λ	1	Total	С	Н	О	S	0	0	
3	А	1	10	2	6	1	1	U	0	
3	Λ	1	Total	С	Н	О	S	0	0	
3	А	1	10	2	6	1	1	0		
3	Λ	1	Total	С	Н	О	S	0	0	
3	А	1	10	2	6	1	1	U	U	
3	Λ	1	Total	С	Н	О	S	0	0	
)	А	1	10	2	6	1	1	0	U	

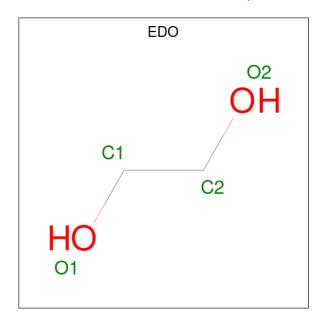
 \bullet Molecule 4 is ACETATE ION (three-letter code: ACT) (formula: $\mathrm{C_2H_3O_2}).$





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	С	Н	О	0	0
1	11	_	7	2	3	2		

 \bullet Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\mathrm{C_2H_6O_2}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C H O 10 2 6 2	0	0
5	A	1	Total C H O 10 2 6 2	0	0
5	A	1	Total C H O 10 2 6 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C H O 10 2 6 2	0	0
5	A	1	Total C H O 10 2 6 2	0	0
5	A	1	Total C H O 10 2 6 2	0	0

• Molecule 6 is water.

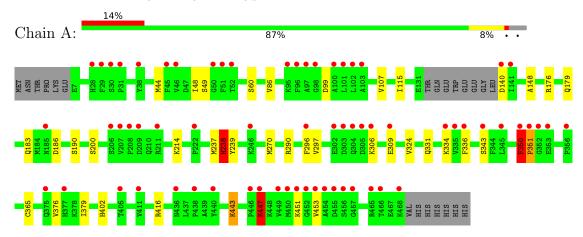
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	120	Total O 121 121	0	1



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: Adenylate cyclase type 10





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 63	Depositor
Cell constants	98.91Å 98.91Å 99.75Å	Donositon
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	32.40 - 2.10	Depositor
Resolution (A)	42.83 - 2.10	EDS
% Data completeness	99.7 (32.40-2.10)	Depositor
(in resolution range)	99.7 (42.83-2.10)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.05 (at 2.10Å)	Xtriage
Refinement program	PHENIX 1.16_3549	Depositor
Ρ. Р.	0.201 , 0.225	Depositor
R, R_{free}	0.201 , 0.226	DCC
R_{free} test set	1610 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	39.7	Xtriage
Anisotropy	0.124	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.40, 52.9	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.059 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7462	wwPDB-VP
Average B, all atoms (Å ²)	59.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.51% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: CME, EDO, ACT, DMS, VE1

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		
MOI		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.58	4/3724 (0.1%)	0.57	5/5041 (0.1%)	

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	A	0	2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\rm Observed(\mathring{A})$	$\operatorname{Ideal}(\text{\AA})$
1	A	350	PHE	CE2-CZ	-15.89	1.07	1.37
1	A	350	PHE	CD1-CE1	-11.85	1.15	1.39
1	A	350	PHE	CD2-CE2	-7.65	1.24	1.39
1	A	350	PHE	CE1-CZ	5.46	1.47	1.37

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	443	LYS	CD-CE-NZ	-6.30	97.21	111.70
1	A	238	HIS	CA-C-N	5.80	129.97	117.20
1	A	350	PHE	CG-CD1-CE1	-5.51	114.74	120.80
1	A	447	LYS	CD-CE-NZ	-5.30	99.50	111.70
1	A	351	PRO	N-CA-C	5.11	125.38	112.10

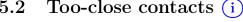
There are no chirality outliers.

All (2) planarity outliers are listed below:



Mol	Chain	Res	Type	Group
1	A	350	PHE	Peptide
1	A	49	SER	Peptide

Too-close contacts (i) 5.2



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	3622	3577	3552	34	3
2	A	22	13	0	0	0
3	A	16	24	24	0	0
4	A	4	3	3	0	0
5	A	24	36	36	2	0
6	A	121	0	0	0	0
All	All	3809	3653	3615	34	3

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 34 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{array}{ll} ext{Interatomic} \ ext{distance} & (ext{Å}) \end{array}$	$egin{aligned} ext{Clash} \ ext{overlap } (ext{Å}) \end{aligned}$
1:A:334:LYS:HA	5:A:512:EDO:H12	1.70	0.73
1:A:447:LYS:HD3	1:A:447:LYS:H	1.56	0.71
1:A:238:HIS:O	1:A:238:HIS:ND1	2.25	0.69
1:A:290:ARG:NH2	1:A:351:PRO:HA	2.14	0.62
1:A:350:PHE:CD2	1:A:351:PRO:HD2	2.36	0.61

All (3) 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	Interatomic	Clash
Atom-1	Atom-2	${f distance}({ m \AA})$	overlap (Å)
1:A:237:MET:O	1:A:443:LYS:NZ[6_554]	1.76	0.44
1:A:237:MET:O	1:A:443:LYS:HZ3[6_554]	1.23	0.37
1:A:238:HIS:C	1:A:443:LYS:HZ1[6_554]	1.41	0.19



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	456/475 (96%)	437 (96%)	19 (4%)	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 C		Outliers	Percentiles	
1	A	398/418 (95%)	389 (98%)	9 (2%)	50 55	

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	402	HIS
1	A	447	LYS
1	A	179	GLN
1	A	200	SER
1	A	238	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	9	GLN
1	A	279	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)

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	Link	В	ond leng	$_{ m gths}$	В	ond ang	gles	
Moi Type	e Chain	nes Lilik		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2	
1	CME	A	253	1	8,9,10	1.06	0	5,9,11	0.70	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
1	CME	A	253	1	-	1/5/8/10	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	253	CME	SD-CE-CZ-OH

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)

12 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	Trino	Chain	Res	Link	В	ond leng	$_{ m gths}$	В	ond ang	gles
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	VE1	A	501	-	21,24,24	5.28	16 (76%)	26,34,34	2.77	10 (38%)
5	EDO	A	507	-	3,3,3	0.54	0	2,2,2	0.30	0
5	EDO	A	508	-	3,3,3	0.42	0	2,2,2	0.33	0
3	DMS	A	502	-	3,3,3	0.65	0	3,3,3	0.57	0
5	EDO	A	509	-	3,3,3	0.54	0	2,2,2	0.21	0
3	DMS	A	503	-	3,3,3	0.69	0	3,3,3	0.50	0
4	ACT	A	506	-	3,3,3	0.85	0	3,3,3	1.63	0
3	DMS	A	505	-	3,3,3	0.60	0	3,3,3	0.90	0
3	DMS	A	504	-	3,3,3	0.60	0	3,3,3	0.24	0
5	EDO	A	512	-	3,3,3	0.68	0	2,2,2	0.56	0
5	EDO	A	510	-	3,3,3	0.50	0	2,2,2	0.48	0
5	EDO	A	511	-	3,3,3	0.61	0	2,2,2	0.39	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
2	VE1	A	501	-	-	0/6/8/8	0/3/3/3
5	EDO	A	507	-	-	0/1/1/1	-
5	EDO	A	508	-	-	0/1/1/1	-
5	EDO	A	509	-	-	0/1/1/1	=
5	EDO	A	512	-	-	1/1/1/1	=
5	EDO	A	510	-	-	1/1/1/1	=
5	EDO	A	511	-	-	1/1/1/1	-

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

\mathbf{Mol}	Chain	Res	Type	Atoms	${f Z}$	$\operatorname{Observed}(\operatorname{\AA})$	$[\operatorname{Ideal}(ext{ iny A})]$
2	A	501	VE1	C12-C13	9.10	1.52	1.37

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
2	A	501	VE1	C12-C17	7.68	1.52	1.39
2	A	501	VE1	C14-C13	7.67	1.52	1.37
2	A	501	VE1	C01-N02	6.64	1.47	1.35
2	A	501	VE1	C15-C16	6.55	1.52	1.38

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

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\mathrm{Ideal}(^{o})$
2	A	501	VE1	C03-N02-C01	9.38	121.69	116.34
2	A	501	VE1	C10-C03-N02	4.59	122.07	116.61
2	A	501	VE1	C20-N07-N11	4.19	125.43	120.50
2	A	501	VE1	N06-C01-N02	-3.76	119.52	125.42
2	A	501	VE1	C05-N06-C01	3.68	118.25	114.43

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	512	EDO	O1-C1-C2-O2
5	A	511	EDO	O1-C1-C2-O2
5	A	510	EDO	O1-C1-C2-O2

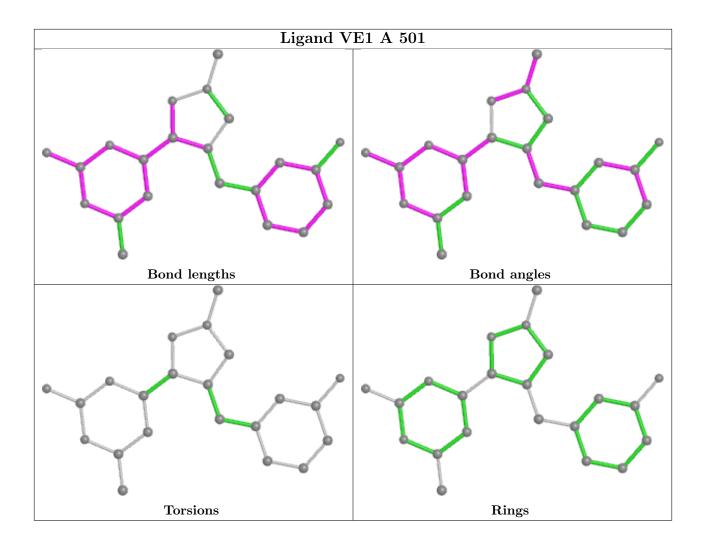
There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	512	EDO	2	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></rsrz>	# RSRZ > 2	$OWAB(Å^2)$	Q < 0.9
1	A	453/475 (95%)	0.78	66 (14%) 2 3	26, 48, 101, 147	0

The worst 5 of 66 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	350	PHE	7.6
1	A	52	THR	6.5
1	A	449	VAL	6.2
1	A	208	PRO	5.7
1	A	98	GLY	5.2

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
1	CME	A	253	10/11	0.95	0.13	32,49,82,83	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,

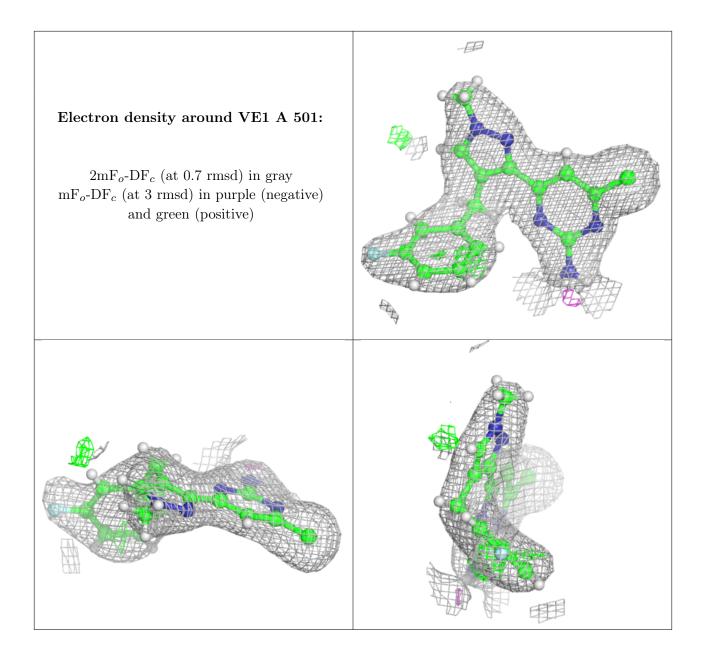


median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
5	EDO	A	509	4/4	0.70	0.17	61,75,86,90	0
4	ACT	A	506	4/4	0.81	0.23	48,57,61,62	0
5	EDO	A	508	4/4	0.85	0.23	71,85,87,90	0
5	EDO	A	512	4/4	0.87	0.21	37,44,45,50	0
3	DMS	A	502	4/4	0.92	0.36	121,146,147,147	0
3	DMS	A	503	4/4	0.94	0.16	73,87,88,88	0
5	EDO	A	510	4/4	0.95	0.21	50,61,64,66	0
5	EDO	A	511	4/4	0.95	0.26	41,49,53,60	0
2	VE1	A	501	22/22	0.95	0.28	30,41,55,58	0
5	EDO	A	507	4/4	0.96	0.18	46,56,65,65	0
3	DMS	A	504	4/4	0.96	0.30	54,64,69,69	0
3	DMS	A	505	4/4	0.97	0.27	74,95,96,96	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.

