

wwPDB X-ray Structure Validation Summary Report (i)

Dec 16, 2024 - 01:45 AM EST

:	6WZ7
:	Mn-bound structure of a TriCyt3 variant
:	Tezcan, F.A.; Kakkis, A.
:	2020-05-13
:	2.30 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:

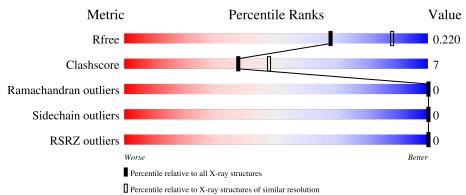
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.21
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.004 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.40

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 2.30 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R _{free}	164625	5963 (2.30-2.30)
Clashscore	180529	6698 (2.30-2.30)
Ramachandran outliers	177936	6640 (2.30-2.30)
Sidechain outliers	177891	6640 (2.30-2.30)
RSRZ outliers	164620	5963 (2.30-2.30)

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	106	92%	8%
1	В	106	97%	•
1	С	106	91%	9%



6WZ7

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 2938 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	А	106	Total	С	Ν	Ο	\mathbf{S}	0	2	0
1	11	100	839	519	149	166	5	0		0
1	В	106	Total	С	Ν	Ο	\mathbf{S}	0	4	0
	I D		849	525	150	169	5			
1	С	106	Total	С	Ν	0	S	0	Б	0
	100	855	530	151	169	5	0	0	0	

• Molecule 1 is a protein called Soluble cytochrome b562.

Chain	Residue	Modelled	Actual	Comment	Reference
А	31	LYS	THR	engineered mutation	UNP P0ABE7
А	35	LYS	ALA	engineered mutation	UNP P0ABE7
А	41	LYS	GLN	engineered mutation	UNP P0ABE7
А	54	ALA	ASP	engineered mutation	UNP P0ABE7
A	59	ILE	LYS	engineered mutation	UNP P0ABE7
А	63	VAL	HIS	engineered mutation	UNP P0ABE7
А	67	GLU	ILE	engineered mutation	UNP P0ABE7
А	69	ALA	VAL	engineered mutation	UNP P0ABE7
А	70	TRP	GLY	engineered mutation	UNP P0ABE7
А	71	GLU	GLN	engineered mutation	UNP P0ABE7
А	73	HIS	ASP	engineered mutation	UNP P0ABE7
А	76	ALA	LEU	engineered mutation	UNP P0ABE7
А	77	HIS	LYS	engineered mutation	UNP P0ABE7
А	80	GLU	ASN	engineered mutation	UNP P0ABE7
A	81	LYS	GLU	engineered mutation	UNP P0ABE7
А	98	CYS	ARG	engineered mutation	UNP P0ABE7
A	101	CYS	TYR	engineered mutation	UNP P0ABE7
В	31	LYS	THR	engineered mutation	UNP P0ABE7
В	35	LYS	ALA	engineered mutation	UNP P0ABE7
В	41	LYS	GLN	engineered mutation	UNP P0ABE7
В	54	ALA	ASP	engineered mutation	UNP P0ABE7
В	59	ILE	LYS	engineered mutation	UNP P0ABE7
В	63	VAL	HIS	engineered mutation	UNP P0ABE7

There are 51 discrepancies between the modelled and reference sequences:

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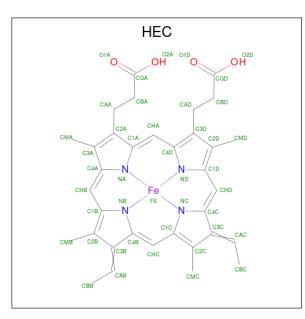


Chain	Residue	Modelled	Actual	Comment	Reference
В	67	GLU	ILE	engineered mutation	UNP P0ABE7
В	69	ALA	VAL	engineered mutation	UNP P0ABE7
В	70	TRP	GLY	engineered mutation	UNP P0ABE7
В	71	GLU	GLN	engineered mutation	UNP P0ABE7
В	73	HIS	ASP	engineered mutation	UNP P0ABE7
В	76	ALA	LEU	engineered mutation	UNP P0ABE7
В	77	HIS	LYS	engineered mutation	UNP P0ABE7
В	80	GLU	ASN	engineered mutation	UNP P0ABE7
В	81	LYS	GLU	engineered mutation	UNP P0ABE7
В	98	CYS	ARG	engineered mutation	UNP P0ABE7
В	101	CYS	TYR	engineered mutation	UNP P0ABE7
С	31	LYS	THR	engineered mutation	UNP P0ABE7
С	35	LYS	ALA	engineered mutation	UNP P0ABE7
С	41	LYS	GLN	engineered mutation	UNP P0ABE7
С	54	ALA	ASP	engineered mutation	UNP P0ABE7
С	59	ILE	LYS	engineered mutation	UNP P0ABE7
С	63	VAL	HIS	engineered mutation	UNP P0ABE7
С	67	GLU	ILE	engineered mutation	UNP P0ABE7
С	69	ALA	VAL	engineered mutation	UNP P0ABE7
С	70	TRP	GLY	engineered mutation	UNP P0ABE7
С	71	GLU	GLN	engineered mutation	UNP P0ABE7
С	73	HIS	ASP	engineered mutation	UNP P0ABE7
С	76	ALA	LEU	engineered mutation	UNP P0ABE7
С	77	HIS	LYS	engineered mutation	UNP P0ABE7
С	80	GLU	ASN	engineered mutation	UNP P0ABE7
С	81	LYS	GLU	engineered mutation	UNP P0ABE7
С	98	CYS	ARG	engineered mutation	UNP P0ABE7
С	101	CYS	TYR	engineered mutation	UNP P0ABE7

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• Molecule 2 is HEME C (three-letter code: HEC) (formula: $C_{34}H_{34}FeN_4O_4$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	А	1	Total					0	0
		1	43	34	1	4	4		0
2	В	1	Total	С	Fe	Ν	Ο	0	0
2	Z D	L	43	34	1	4	4		
0	2 C	C 1	Total	С	Fe	Ν	Ο	0	0
			43	34	1	4	4	0	0

• Molecule 3 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Mn 1 1	0	0

• Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	3	Total Cl 3 3	0	0
4	В	1	Total Cl 1 1	0	0
4	С	1	Total Cl 1 1	0	0

• Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	3	Total Ca 3 3	0	0
5	В	3	Total Ca 3 3	0	0
5	С	3	Total Ca 3 3	0	0

• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	91	Total O 91 91	0	0
6	В	79	Total O 79 79	0	0
6	С	81	Total O 81 81	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: Soluble cytochrome b562

Chain A:	92%	8%
A1 E4 E4 E4 E49 E49 E49 E80 H102 H102 H102 H102 H103		
• Molecule 1: Soluble c	ytochrome b562	
Chain B:	97%	
A1 E7 0103 R106 R106		
• Molecule 1: Soluble c	ytochrome b562	
Chain C:	91%	9%
A1 E8 E3 E71 E71 E71 E71 E71 E80 M99 K103 K103	R106	



4 Data and refinement statistics (i)

Property	Value	Source	
Space group	C 1 2 1	Depositor	
Cell constants	140.98Å 81.85 Å 53.38 Å	Deperitor	
a, b, c, α , β , γ	90.00° 90.04° 90.00°	Depositor	
Resolution (Å)	35.40 - 2.30	Depositor	
Resolution (A)	35.40 - 2.30	EDS	
% Data completeness	98.3 (35.40-2.30)	Depositor	
(in resolution range)	97.0 (35.40-2.30)	EDS	
R _{merge}	0.06	Depositor	
$\frac{\mathbf{R}_{sym}}{< I/\sigma(I) > 1}$	(Not available)	Depositor	
$< I/\sigma(I) > 1$	$1.83 (at 2.29 \text{\AA})$	Xtriage	
Refinement program	PHENIX (1.14_3260: ???)	Depositor	
D D.	0.180 , 0.219	Depositor	
R, R_{free}	0.182 , 0.220	DCC	
R_{free} test set	24595 reflections $(7.62%)$	wwPDB-VP	
Wilson B-factor $(Å^2)$	34.7	Xtriage	
Anisotropy	0.188	Xtriage	
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.31, 18.6	EDS	
L-test for twinning ²	$< L > = 0.52, < L^2 > = 0.35$	Xtriage	
	0.036 for $-1/2$ *h $+3/2$ *k, $1/2$ *h $+1/2$ *k, -1		
	0.039 for -1/2*h-3/2*k,-1/2*h+1/2*k,-l		
Estimated twinning fraction	0.467 for $1/2$ *h+ $3/2$ *k, $1/2$ *h- $1/2$ *k,-l	Xtriage	
	0.468 for $1/2$ *h- $3/2$ *k,- $1/2$ *h- $1/2$ *k,-l		
	0.035 for -h,-k,l		
F_o, F_c correlation	0.96	EDS	
Total number of atoms	2938	wwPDB-VP	
Average B, all atoms $(Å^2)$	38.0	wwPDB-VP	

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.26% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: MN, CL, HEC, CA

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		
	Ullalli	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.34	0/855	0.47	0/1143	
1	В	0.37	0/871	0.50	0/1165	
1	С	0.35	0/880	0.47	0/1176	
All	All	0.35	0/2606	0.48	0/3484	

There are no bond length outliers.

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	А	839	0	845	13	0
1	В	849	0	855	6	0
1	С	855	0	868	11	0
2	А	43	0	30	2	0
2	В	43	0	30	2	0
2	С	43	0	30	2	0
3	А	1	0	0	0	0
4	А	3	0	0	0	0
4	В	1	0	0	0	0
4	С	1	0	0	0	0

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	0	Non-H	1 0	H(added)	Clashes	Symm-Clashes
5	А	3	0	0	0	0
5	В	3	0	0	0	0
5	С	3	0	0	0	0
6	А	91	0	0	4	0
6	В	79	0	0	5	0
6	С	81	0	0	5	0
All	All	2938	0	2658	37	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 7.

The worst 5 of 37 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:A:47:LYS:NZ	1:A:106[B]:ARG:OXT	1.84	1.10
1:A:47:LYS:NZ	1:A:106[A]:ARG:OXT	1.85	1.09
1:C:80:GLU:OE1	6:C:301:HOH:O	2.00	0.80
1:C:8:GLU:OE1	6:C:302:HOH:O	2.06	0.73
1:A:4:GLU:OE2	6:A:301:HOH:O	2.10	0.69

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	Perce	ntiles
1	А	105/106~(99%)	105~(100%)	0	0	100	100
1	В	107/106~(101%)	107 (100%)	0	0	100	100
1	С	108/106~(102%)	108 (100%)	0	0	100	100
All	All	320/318 (101%)	320 (100%)	0	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	А	87/85~(102%)	87 (100%)	0	100 100
1	В	89/85~(105%)	89 (100%)	0	100 100
1	С	90/85~(106%)	90 (100%)	0	100 100
All	All	266/255~(104%)	266 (100%)	0	100 100

There are no protein residues with a non-rotameric sidechain to report.

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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 18 ligands modelled in this entry, 15 are monoatomic - leaving 3 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



Mal	Mol Type C	Chain	Chain	Chain	Chain	Chain	Res	Link	Bo	ond leng	ths	B	ond ang	gles
	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2				
2	HEC	А	201	5,1	32,50,50	1.89	4 (12%)	30,82,82	1.95	9 (30%)				
2	HEC	В	201	5,1	32,50,50	1.87	4 (12%)	30,82,82	2.13	12 (40%)				
2	HEC	С	201	5,1	32,50,50	1.86	5 (15%)	30,82,82	2.05	8 (26%)				

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).

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	HEC	А	201	5,1	-	4/10/54/54	-
2	HEC	В	201	5,1	-	4/10/54/54	-
2	HEC	С	201	5,1	-	2/10/54/54	-

The worst 5 of 13 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	В	201	HEC	C2B-C3B	-5.24	1.34	1.40
2	А	201	HEC	C2B-C3B	-4.83	1.35	1.40
2	А	201	HEC	C3C-C2C	-4.66	1.35	1.40
2	С	201	HEC	C3C-C2C	-4.61	1.35	1.40
2	С	201	HEC	C2B-C3B	-4.47	1.35	1.40

The worst 5 of 29 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	С	201	HEC	CMC-C2C-C1C	-5.21	120.83	128.46
2	В	201	HEC	CMC-C2C-C1C	-4.72	121.54	128.46
2	А	201	HEC	CMC-C2C-C1C	-4.65	121.64	128.46
2	С	201	HEC	CMC-C2C-C3C	4.46	131.06	125.82
2	В	201	HEC	CMC-C2C-C3C	4.39	130.98	125.82

There are no chirality outliers.

 $5~{\rm of}~10$ torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
2	В	201	HEC	CAA-CBA-CGA-O2A
2	В	201	HEC	CAA-CBA-CGA-O1A
2	А	201	HEC	CAA-CBA-CGA-O2A
2	А	201	HEC	CAD-CBD-CGD-O1D
2	С	201	HEC	CAA-CBA-CGA-O2A

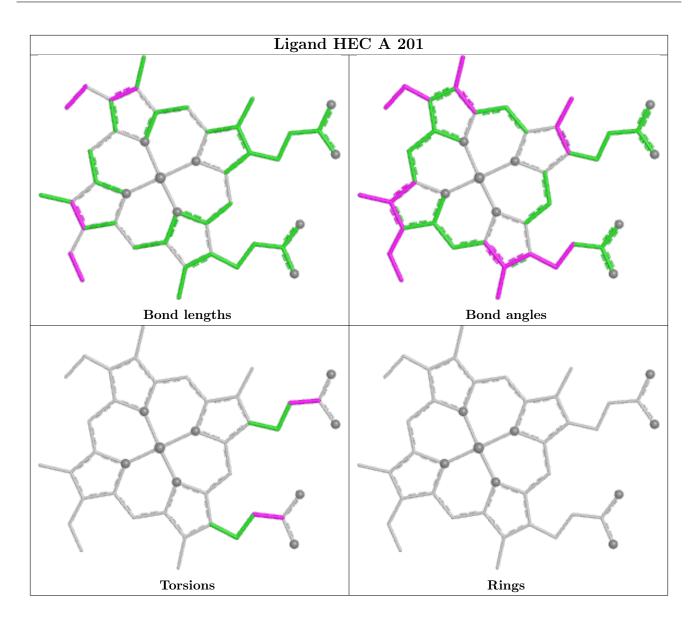
There are no ring outliers.

3 monomers are involved in 6 short contacts:

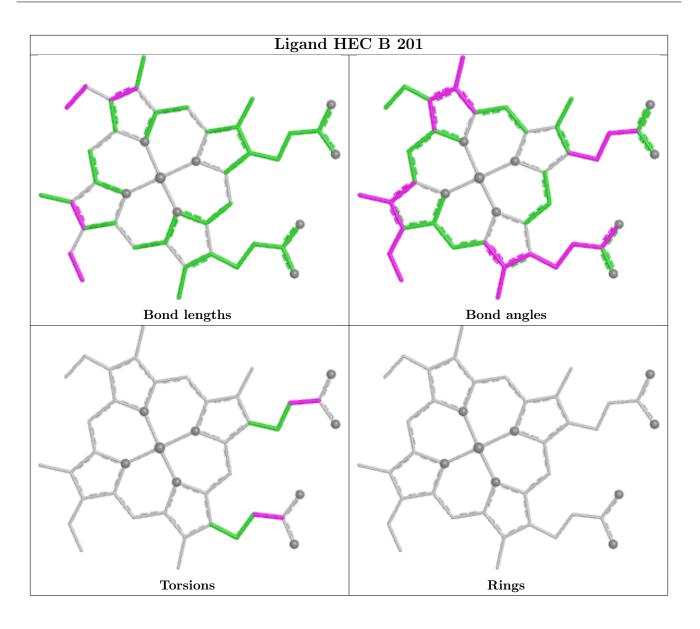
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	А	201	HEC	2	0
2	В	201	HEC	2	0
2	С	201	HEC	2	0

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.

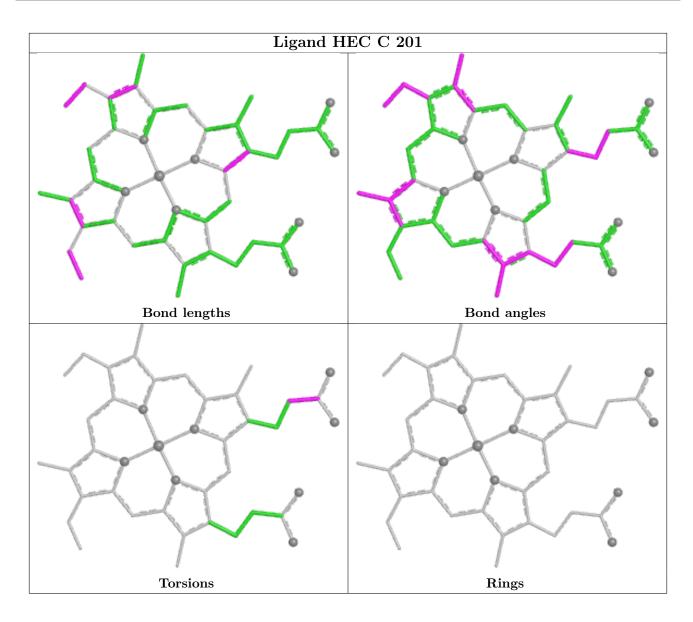












5.7 Other polymers (i)

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	А	106/106~(100%)	-1.48	0 100	100	22, 36, 51, 64	2(1%)
1	В	106/106~(100%)	-1.53	0 100	100	20, 36, 50, 58	4 (3%)
1	С	106/106~(100%)	-1.46	0 100	100	21, 35, 49, 58	5 (4%)
All	All	318/318~(100%)	-1.49	0 100	100	20, 36, 51, 64	11 (3%)

There are no RSRZ outliers to report.

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	B-factors(Å ²)	Q<0.9
5	CA	А	206	1/1	0.98	0.04	79,79,79,79	0
5	CA	А	208	1/1	0.98	0.05	82,82,82,82	0
5	CA	С	203	1/1	0.98	0.04	82,82,82,82	0
5	CA	А	207	1/1	0.99	0.02	44,44,44,44	0
4	CL	С	202	1/1	0.99	0.07	43,43,43,43	0

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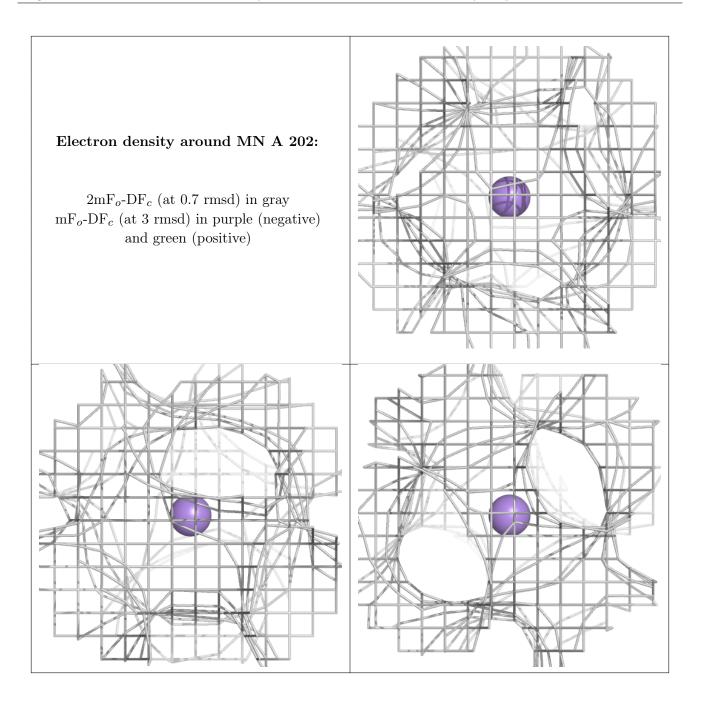


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
5	CA	В	203	1/1	0.99	0.04	82,82,82,82	0
5	CA	В	205	1/1	0.99	0.02	87,87,87,87	0
4	CL	В	202	1/1	0.99	0.07	$45,\!45,\!45,\!45$	0
5	CA	С	204	1/1	0.99	0.02	82,82,82,82	0
5	CA	С	205	1/1	0.99	0.03	89,89,89,89	0
3	MN	А	202	1/1	1.00	0.02	31,31,31,31	0
4	CL	А	203	1/1	1.00	0.02	38,38,38,38	0
4	CL	А	204	1/1	1.00	0.04	$35,\!35,\!35,\!35$	0
5	CA	В	204	1/1	1.00	0.01	44,44,44,44	1
4	CL	А	205	1/1	1.00	0.07	41,41,41,41	0
2	HEC	А	201	43/43	1.00	0.03	$23,\!32,\!55,\!65$	0
2	HEC	В	201	43/43	1.00	0.03	24,34,54,70	0
2	HEC	С	201	43/43	1.00	0.03	22,32,53,66	0

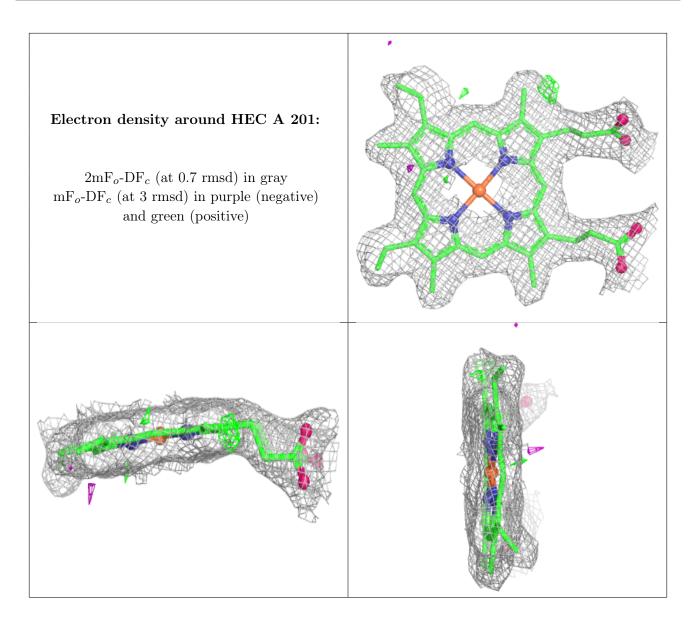
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The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also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

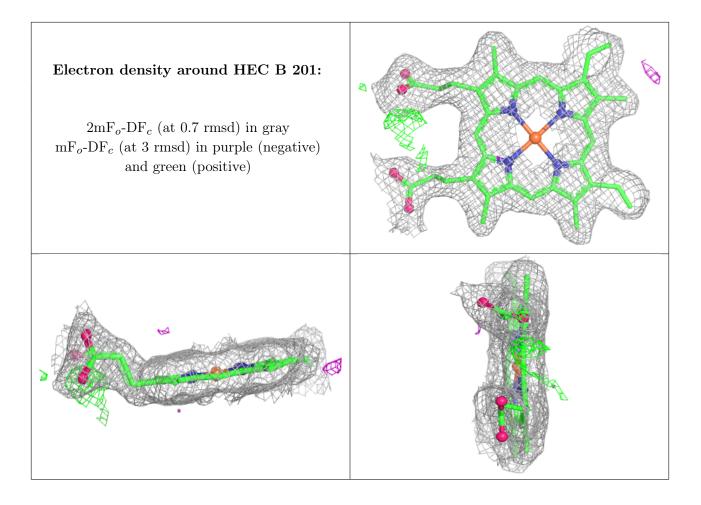




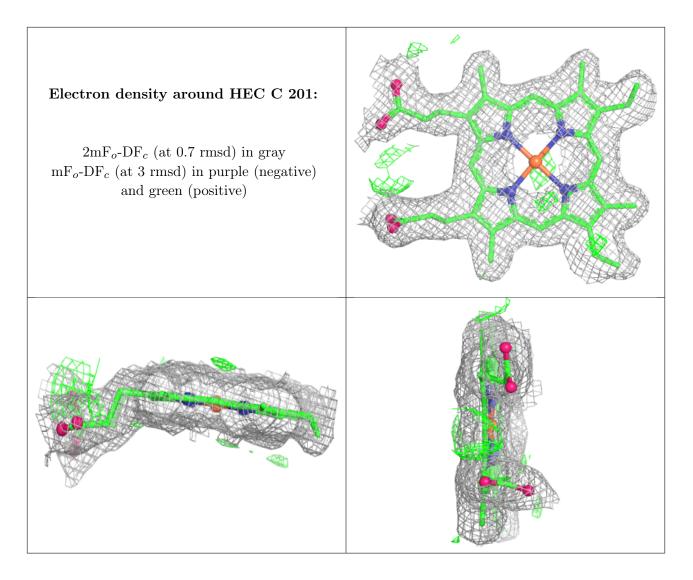












6.5 Other polymers (i)

There are no such residues in this entry.

