

Full wwPDB X-ray Structure Validation Report (i)

Oct 29, 2023 – 10:08 PM EDT

PDB ID : 8F9I

Title : H64A swMb-EtNO adduct Authors : Herrera, V.E.; Thomas, L.N.

Deposited on : 2022-11-23

Resolution : 1.80 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 : 5.8.0158

CCP4 : 7.0.044 (Gargrove)

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

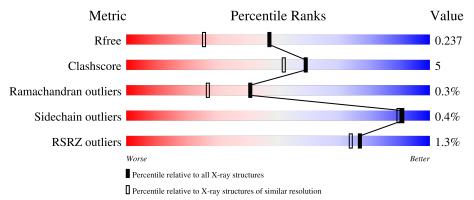
Validation Pipeline (wwPDB-VP) : 2.36

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 1.80 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
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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	A	154	94%	6%		
1	В	154	91%	8% •		

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
3	NOE	В	201[A]	_	_	X	_



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 2881 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.

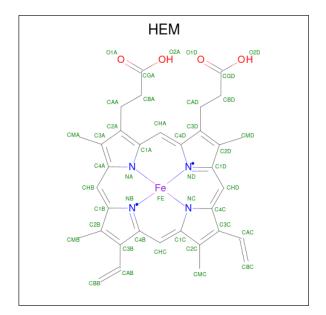
• Molecule 1 is a protein called Myoglobin.

\mathbf{Mol}	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Δ	154	Total	С	N	О	S	0	1	0
1	11	104	1229	790	217	219	3	0	1	U
1	B	154	Total	С	N	Ο	S	0	0	0
1	D	104	1220	785	216	216	3		U U	U

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	64	ALA	HIS	engineered mutation	UNP P02185
A	122	ASN	ASP	variant	UNP P02185
В	64	ALA	HIS	engineered mutation	UNP P02185
В	122	ASN	ASP	variant	UNP P02185

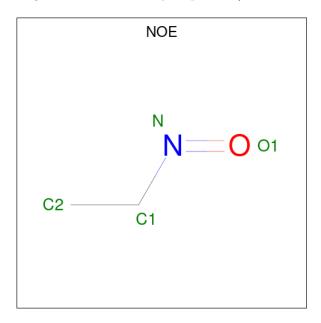
• Molecule 2 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: C₃₄H₃₂FeN₄O₄) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
2	Λ	1	Total C Fe N O		0	0				
	A	1	43	34	1	4	4	0	0	
2	D	1	Total	С	Fe	N	О	0	0	
	Б	1	43	34	1	4	4	0	U	

• Molecule 3 is NITROSOETHANE (three-letter code: NOE) (formula: C_2H_5NO) (labeled as "Ligand of Interest" by depositor).



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

 \bullet Molecule 4 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total O S 5 4 1	0	0
4	В	1	Total O S 5 4 1	0	0
4	В	1	Total O S 5 4 1	0	0

• Molecule 5 is water.

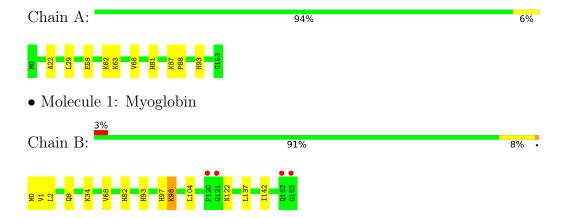
\mathbf{Mol}	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	177	Total O 177 177	0	0
5	В	146	Total O 146 146	0	0



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: Myoglobin





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	41.83Å 76.77Å 50.53Å	Depositor
a, b, c, α , β , γ	90.00° 103.80° 90.00°	Depositor
Resolution (Å)	41.38 - 1.80	Depositor
Resolution (A)	41.35 - 1.80	EDS
% Data completeness	96.8 (41.38-1.80)	Depositor
(in resolution range)	96.8 (41.35-1.80)	EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	5.27 (at 1.81Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
D D.	0.175 , 0.227	Depositor
R, R_{free}	0.186 , 0.237	DCC
R_{free} test set	1333 reflections (4.78%)	wwPDB-VP
Wilson B-factor (Å ²)	16.9	Xtriage
Anisotropy	0.327	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35, 42.9	EDS
L-test for twinning ²	$ < L > = 0.50, < L^2> = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	2881	wwPDB-VP
Average B, all atoms $(Å^2)$	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.63% 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: NOE, SO4, HEM

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	0.77	0/1256	0.78	0/1685	
1	В	0.73	0/1247	0.79	0/1673	
All	All	0.75	0/2503	0.79	0/3358	

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	A	1229	0	1256	8	0
1	В	1220	0	1251	10	0
2	A	43	0	30	4	0
2	В	43	0	30	7	0
3	A	4	0	5	1	0
3	В	4	0	5	3	0
4	A	5	0	0	0	0
4	В	10	0	0	0	0
5	A	177	0	0	1	0
5	В	146	0	0	3	0
All	All	2881	0	2577	24	0



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.

All (24) 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:B:8:GLN:HG3	5:B:421:HOH:O	1.47	1.15
2:B:200:HEM:C1A	3:B:201[A]:NOE:HC11	2.33	0.64
2:A:200:HEM:HBC2	2:A:200:HEM:HMC1	1.83	0.61
1:B:122:ASN:ND2	5:B:305:HOH:O	2.34	0.60
2:B:200:HEM:NA	3:B:201[A]:NOE:HC11	2.22	0.54
1:A:81:HIS:HE1	5:A:440:HOH:O	1.90	0.54
1:A:87:LYS:HB3	1:A:88:PRO:HD3	1.91	0.53
2:B:200:HEM:HBC2	2:B:200:HEM:HMC1	1.91	0.52
2:B:200:HEM:NA	3:B:201[A]:NOE:C1	2.76	0.49
1:B:1:VAL:HG12	1:B:2:LEU:O	2.14	0.47
1:B:68:VAL:HG23	2:B:200:HEM:C2B	2.50	0.47
1:A:59[B]:GLU:HG2	1:A:63:LYS:HE2	1.97	0.47
2:A:200:HEM:HBC2	2:A:200:HEM:CMC	2.45	0.45
1:A:22:ALA:HB1	1:A:62:LYS:HE2	1.99	0.44
1:B:97:HIS:CE1	2:B:200:HEM:HAD1	2.54	0.43
1:A:93:HIS:CE1	2:A:200:HEM:NA	2.87	0.43
1:B:93:HIS:CE1	2:B:200:HEM:NA	2.87	0.42
1:B:34:LYS:CE	5:B:403:HOH:O	2.68	0.41
1:A:87:LYS:HB3	1:A:88:PRO:CD	2.49	0.41
1:A:29:LEU:HD21	3:A:201:NOE:HC21	2.03	0.41
1:B:0:MET:HG3	1:B:137:LEU:HD13	2.01	0.41
1:B:98:LYS:HA	1:B:98:LYS:HD2	1.77	0.41
1:A:68:VAL:HG23	2:A:200:HEM:C2B	2.56	0.41
1:B:104:LEU:CD1	1:B:142:ILE:HG21	2.51	0.40

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	entiles
1	A	153/154~(99%)	150 (98%)	3 (2%)	0	100	100
1	В	$152/154\ (99\%)$	147 (97%)	4 (3%)	1 (1%)	22	10
All	All	305/308~(99%)	297 (97%)	7 (2%)	1 (0%)	41	27

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	В	98	LYS

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	$_{ m ntiles}$
1	A	126/125 (101%)	126 (100%)	0	100	100
1	В	125/125 (100%)	124 (99%)	1 (1%)	81	78
All	All	251/250 (100%)	250 (100%)	1 (0%)	91	89

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	82	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	128	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)

7 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	Type	pe Chain Res		Chain Res I		Link	Вс	Bond lengths			Bond angles		
IVIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2			
4	SO4	A	202	-	4,4,4	0.28	0	6,6,6	0.15	0			
4	SO4	В	203	-	4,4,4	0.27	0	6,6,6	0.21	0			
4	SO4	В	202	-	4,4,4	0.41	0	6,6,6	0.14	0			
3	NOE	A	201	2	2,3,3	0.84	0	1,2,2	0.70	0			
2	HEM	В	200	5,1,3	41,50,50	1.68	8 (19%)	45,82,82	2.49	15 (33%)			
2	HEM	A	200	1,3	41,50,50	1.65	9 (21%)	45,82,82	2.21	13 (28%)			
3	NOE	В	201[A]	2	2,3,3	0.56	0	1,2,2	1.06	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	NOE	В	201[A]	2	-	0/0/1/1	-
2	HEM	A	200	1,3	-	4/12/54/54	-
3	NOE	A	201	2	-	0/0/1/1	-
2	HEM	В	200	5,1,3	-	5/12/54/54	-

All (17) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$Ideal(\AA)$
2	В	200	HEM	C1B-NB	-4.94	1.31	1.40
2	A	200	HEM	C1D-C2D	4.18	1.52	1.44
2	В	200	HEM	C1D-ND	-4.08	1.30	1.38
2	A	200	HEM	C1B-NB	-3.83	1.33	1.40
2	В	200	HEM	C1D-C2D	3.18	1.50	1.44
2	A	200	HEM	C4B-NB	-3.18	1.32	1.38
2	В	200	HEM	C4B-NB	-3.07	1.32	1.38
2	A	200	HEM	O2A-CGA	-2.98	1.20	1.30
2	В	200	HEM	C1A-NA	2.90	1.42	1.36
2	В	200	HEM	C4D-ND	-2.81	1.35	1.40
2	A	200	HEM	FE-NB	2.37	2.08	1.96
2	A	200	HEM	C3D-C2D	-2.18	1.32	1.36
2	В	200	HEM	CHB-C1B	2.16	1.40	1.35
2	В	200	HEM	C3B-C4B	2.10	1.49	1.44
2	A	200	HEM	C3C-C2C	-2.06	1.37	1.40
2	A	200	HEM	CHD-C1D	-2.06	1.35	1.41
2	A	200	HEM	CHB-C1B	2.03	1.40	1.35

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	200	HEM	CHC-C4B-NB	7.49	132.57	124.43
2	A	200	HEM	CHC-C4B-NB	7.07	132.11	124.43
2	В	200	HEM	C1B-NB-C4B	6.60	111.89	105.07
2	A	200	HEM	C1B-NB-C4B	6.54	111.83	105.07
2	В	200	HEM	CHD-C1D-ND	5.91	130.85	124.43
2	В	200	HEM	CHA-C4D-ND	4.66	130.14	124.38
2	В	200	HEM	C4D-ND-C1D	4.63	109.86	105.07
2	В	200	HEM	CHB-C1B-NB	4.19	129.55	124.38
2	A	200	HEM	CHD-C1D-ND	3.48	128.21	124.43
2	A	200	HEM	CAD-C3D-C4D	3.16	130.18	124.66
2	A	200	HEM	C4B-C3B-C2B	-2.93	104.79	107.11
2	В	200	HEM	CHA-C4D-C3D	-2.91	119.87	125.33
2	A	200	HEM	CHC-C4B-C3B	-2.83	120.24	124.57
2	A	200	HEM	CBD-CAD-C3D	-2.73	105.04	112.63
2	A	200	HEM	C3D-C4D-ND	2.73	113.20	110.17
2	A	200	HEM	CMA-C3A-C4A	-2.69	124.32	128.46
2	В	200	HEM	CMA-C3A-C2A	2.68	130.00	124.94
2	В	200	HEM	O2D-CGD-CBD	2.58	122.31	114.03
2	В	200	HEM	CMA-C3A-C4A	-2.57	124.51	128.46
2	В	200	HEM	CHD-C1D-C2D	-2.56	120.98	124.98
2	A	200	HEM	CHD-C1D-C2D	-2.55	120.99	124.98
2	A	200	HEM	CMC-C2C-C3C	2.46	129.28	124.68

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COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	200	HEM	CHC-C4B-C3B	-2.45	120.82	124.57
2	В	200	HEM	O1D-CGD-CBD	-2.28	115.75	123.08
2	A	200	HEM	CHB-C1B-NB	2.24	127.15	124.38
2	A	200	HEM	CHA-C4D-C3D	-2.23	121.14	125.33
2	В	200	HEM	C4A-C3A-C2A	-2.23	105.45	107.00
2	В	200	HEM	CAD-C3D-C4D	2.02	128.19	124.66

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	200	HEM	C3D-CAD-CBD-CGD
2	В	200	HEM	CAA-CBA-CGA-O1A
2	A	200	HEM	CAA-CBA-CGA-O1A
2	В	200	HEM	CAA-CBA-CGA-O2A
2	A	200	HEM	CAA-CBA-CGA-O2A
2	В	200	HEM	CAD-CBD-CGD-O2D
2	В	200	HEM	CAD-CBD-CGD-O1D
2	A	200	HEM	CAD-CBD-CGD-O2D
2	A	200	HEM	CAD-CBD-CGD-O1D

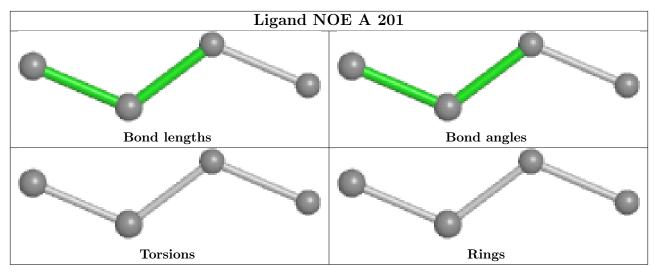
There are no ring outliers.

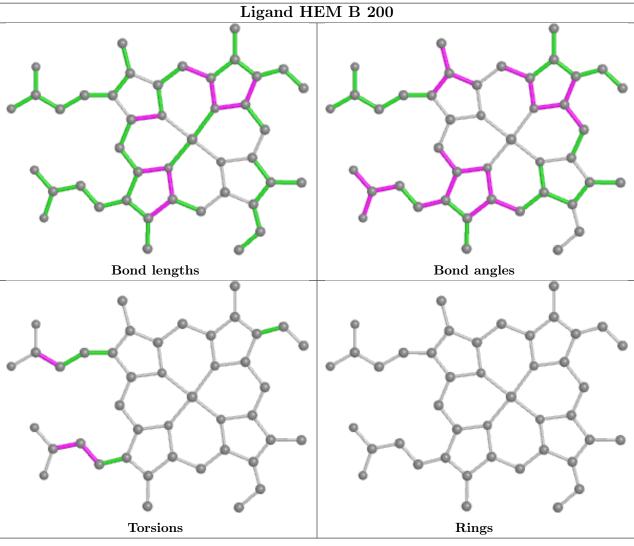
4 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	201	NOE	1	0
2	В	200	HEM	7	0
2	A	200	HEM	4	0
3	В	201[A]	NOE	3	0

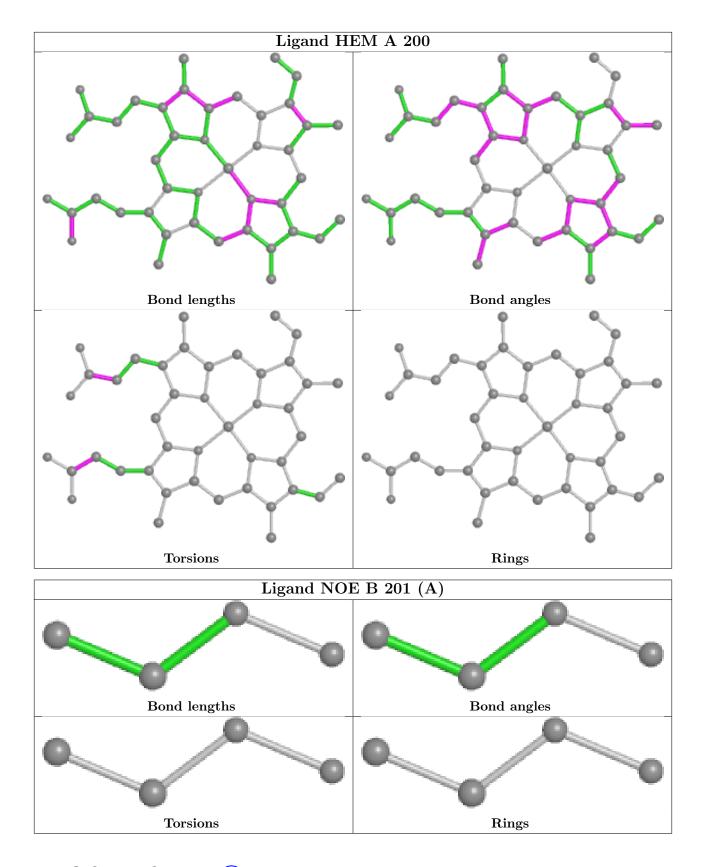
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 > 2	$OWAB(A^2)$	Q < 0.9
1	A	154/154 (100%)	-0.56	0 100 100	9, 14, 26, 37	0
1	В	154/154 (100%)	-0.43	4 (2%) 56 51	11, 17, 33, 54	0
All	All	308/308 (100%)	-0.49	4 (1%) 77 74	9, 16, 29, 54	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	153	GLY	3.0
1	В	120	PRO	2.5
1	В	152	GLN	2.4
1	В	121	GLY	2.1

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
4	SO4	В	203	5/5	0.89	0.22	25,31,35,37	0

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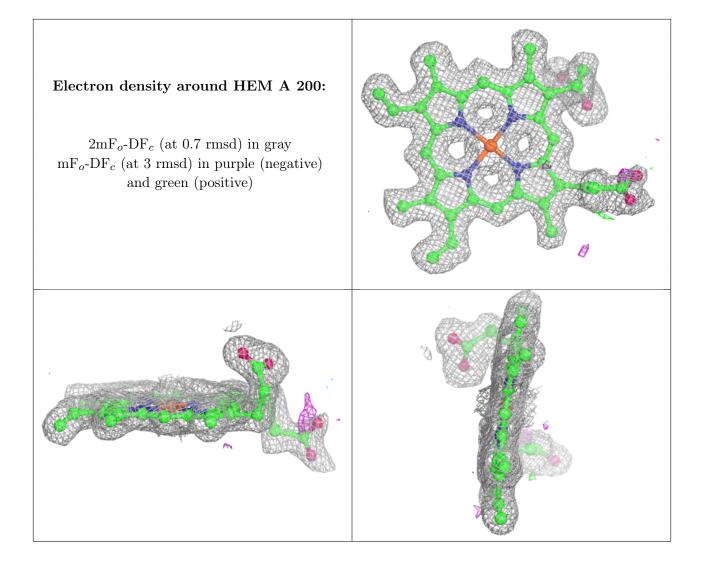
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	NOE	В	201[A]	4/4	0.93	0.16	15,15,15,17	4
3	NOE	A	201	4/4	0.93	0.12	20,22,24,28	0
4	SO4	A	202	5/5	0.96	0.22	31,34,38,38	0
2	HEM	A	200	43/43	0.97	0.08	10,11,22,31	0
2	HEM	В	200	43/43	0.97	0.09	12,16,30,42	0
4	SO4	В	202	5/5	0.98	0.10	27,33,35,36	0

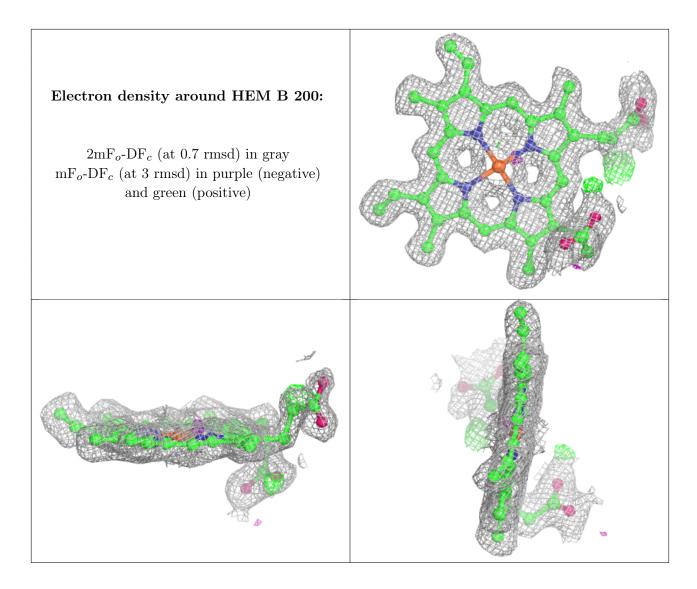
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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











6.5 Other polymers (i)

There are no such residues in this entry.

