

wwPDB X-ray Structure Validation Summary Report (i)

Aug 29, 2020 – 01:06 PM BST

PDB ID	:	6RR1
Title	:	Structure of 10% reduced KpDyP
Authors	:	Pfanzagl, V.; Beale, J.; Hofbauer, S.
Deposited on		
$\operatorname{Resolution}$:	1.90 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 following versions of software and data (see references (1)) were used in the production of this report:

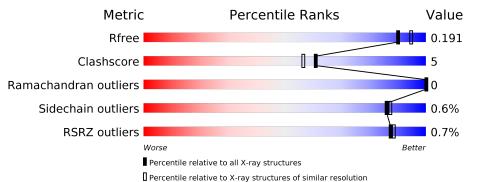
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.13
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.13

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 1.90 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	$egin{array}{c} \mathbf{Whole \ archive} \ (\#\mathbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847(1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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 on 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	303	% 89%	10%	•
1	В	303	89%	9%	•



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 10774 atoms, of which 5009 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 Iron-dependent peroxidase.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace		
1	А	301	Total 4951	C 1566	H 2456	N 447	0 471	S 11	0	19	0
1	В	298	Total 4741	$ m C \ 1509$	Н 2345	N 422	0 457	S 8	0	10	0

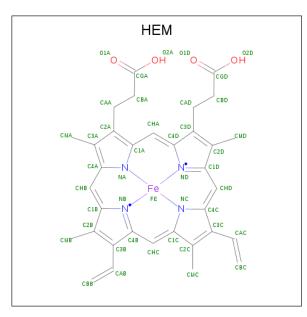
There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	PRO	-	expression tag	UNP A0A0W8ATM9
A	-1	LEU	-	expression tag	UNP A0A0W8ATM9
A	0	GLY	-	expression tag	UNP A0A0W8ATM9
A	300	GLY	-	expression tag	UNP A0A0W8ATM9
В	-2	PRO	-	expression tag	UNP A0A0W8ATM9
В	-1	LEU	-	expression tag	UNP A0A0W8ATM9
В	0	GLY	-	expression tag	UNP A0A0W8ATM9
В	300	GLY	-	expression tag	UNP A0A0W8ATM9

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

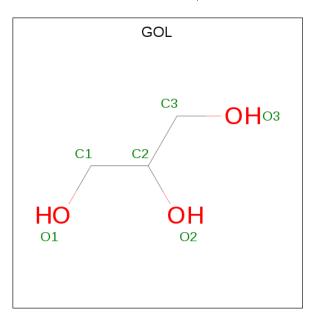






Mol	Chain	Residues		I	Aton	ıs			ZeroOcc	AltConf
9	Λ	1	Total	С	Fe	Η	Ν	0	0	1
	Л	L	146	68	2	60	8	8	0	L
9	В	1	Total	С	Fe	Η	Ν	Ο	0	1
	D		146	68	2	60	8	8	0	1

• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	Δ	1	Total C H	0	0	1
5	Л	T	28 6 16	6	0	
2	Δ	1	Total C H	Ο	0	0
J	А		14 3 8	3	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total C H O 14 3 8 3	0	0
3	А	1	Total C H O 14 3 8 3	0	0
3	А	1	Total C H O 14 3 8 3	0	0
3	А	1	Total C H O 14 3 8 3	0	0
3	В	1	Total C H O 14 3 8 3	0	0
3	В	1	Total C H O 14 3 8 3	0	0
3	В	1	Total C H O 14 3 8 3	0	0
3	В	1	Total C H O 14 3 8 3	0	0

• Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	В	1	Total Mg 1 1	0	0
4	А	1	Total Mg 1 1	0	0

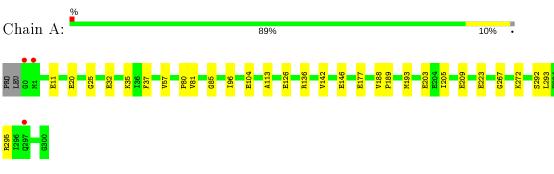
• Molecule 5 is water.

M	ol	Chain	Residues	Atoms	ZeroOcc	AltConf
5		А	330	Total O 330 330	0	0
5		В	304	Total O 304 304	0	0



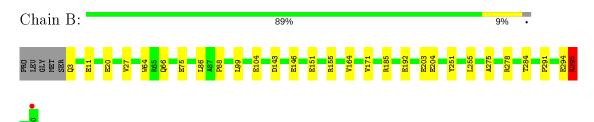
3 Residue-property plots (i)

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: Iron-dependent peroxidase

• Molecule 1: Iron-dependent peroxidase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	50.89Å 76.65 Å 76.58 Å	Depositor
a, b, c, α , β , γ	90.00° 108.01° 90.00°	Depositor
Resolution (Å)	48.40 - 1.90	Depositor
Resolution (A)	48.40 - 1.90	EDS
% Data completeness	$98.5\ (48.40\text{-}1.90)$	Depositor
(in resolution range)	$98.4 \ (48.40 - 1.90)$	EDS
R _{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$3.18 ({\rm at}1.90{ m \AA})$	Xtriage
Refinement program	BUSTER 2.10.3	Depositor
R, R_{free}	0.170 , 0.191	Depositor
II, II, <i>free</i>	0.172 , 0.191	DCC
R_{free} test set	982 reflections (2.26%)	wwPDB-VP
Wilson B-factor $(Å^2)$	9.1	Xtriage
Anisotropy	0.677	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.41 , 52.9	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.030 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	10774	wwPDB-VP
Average B, all atoms $(Å^2)$	12.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.35% 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.



 $^{^1 \}mathrm{Intensities}$ 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: GOL, MG, 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	Bo	nd lengths	Bond angles		
		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	1.11	12/2558~(0.5%)	0.88	0/3453	
1	В	1.16	13/2443~(0.5%)	0.93	3/3300~(0.1%)	
All	All	1.14	25/5001~(0.5%)	0.91	3/6753~(0.0%)	

The worst 5 of 25 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
1	В	20	GLU	CD-OE1	-7.93	1.17	1.25
1	А	223	GLU	CD-OE2	-7.53	1.17	1.25
1	А	11	GLU	CD-OE2	-7.47	1.17	1.25
1	А	20	GLU	CD-OE1	-7.43	1.17	1.25
1	А	126	GLU	CD-OE2	-7.42	1.17	1.25

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	В	295	ARG	NE-CZ-NH1	-10.84	114.88	120.30
1	В	295	ARG	NE-CZ-NH2	8.94	124.77	120.30
1	В	155	ARG	NE-CZ-NH2	-5.04	117.78	120.30

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	2495	2456	2433	15	0
1	В	2396	2345	2326	24	0
2	А	86	60	60	4	0
2	В	86	60	60	3	0
3	А	42	56	56	0	0
3	В	24	32	32	1	0
4	А	1	0	0	0	0
4	В	1	0	0	0	0
5	А	330	0	0	2	0
5	В	304	0	0	4	0
All	All	5765	5009	4967	46	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.

The worst 5 of 46 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:88:PRO:HG2	5:B:502:HOH:O	1.64	0.98
1:B:3:GLN:HB2	1:B:294:GLU:OE1	1.65	0.94
1:A:193:MET:CE	1:A:205:ILE:HD13	1.99	0.90
1:B:3:GLN:CB	1:B:294:GLU:OE1	2.20	0.89
1:A:193:MET:HE3	1:A:205:ILE:HD13	1.61	0.82

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	А	318/303~(105%)	311~(98%)	7 (2%)	0	100	100
1	В	305/303~(101%)	300 (98%)	5 (2%)	0	100	100
All	All	623/606~(103%)	611 (98%)	12 (2%)	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	261/244~(107%)	260~(100%)	1 (0%)	91 91		
1	В	249/244~(102%)	247~(99%)	2(1%)	81 82		
All	All	510/488~(104%)	507~(99%)	3 (1%)	86 87		

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	80	PRO
1	В	164	VAL
1	В	295	ARG

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

Mol	Chain	Res	Type
1	В	3	GLN
1	В	260	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)

Of 17 ligands modelled in this entry, 2 are monoatomic - leaving 15 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).

Mal	Tree	Chain	Res	Link	Bo	ond leng	ths	B	ond ang	les
Mol	Type	Chain	nes	LINK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	GOL	В	404	-	5, 5, 5	0.15	0	$5,\!5,\!5$	0.26	0
2	HEM	В	401[A]	1,5	$27,\!50,\!50$	1.04	2(7%)	17,82,82	1.84	6 (35%)
3	GOL	А	402[A]	-	5, 5, 5	0.10	0	$5,\!5,\!5$	0.17	0
3	GOL	А	406	-	5, 5, 5	0.10	0	$5,\!5,\!5$	0.03	0
3	GOL	А	405	-	5, 5, 5	0.11	0	$5,\!5,\!5$	0.19	0
3	GOL	А	402[B]	-	5, 5, 5	0.09	0	$5,\!5,\!5$	0.15	0
3	GOL	В	402	-	5, 5, 5	0.21	0	$5,\!5,\!5$	0.43	0
2	HEM	В	401[B]	1,5	27,50,50	1.23	3 (11%)	17,82,82	1.60	<mark>6 (35%)</mark>
3	GOL	В	405	-	5, 5, 5	0.19	0	$5,\!5,\!5$	0.34	0
2	HEM	А	401[B]	1,5	$27,\!50,\!50$	1.30	4 (14%)	17,82,82	1.41	2 (11%)
3	GOL	А	404	-	5, 5, 5	0.08	0	$5,\!5,\!5$	0.25	0
3	GOL	А	403	-	5, 5, 5	0.08	0	$5,\!5,\!5$	0.22	0
3	GOL	В	403	-	5, 5, 5	0.05	0	$5,\!5,\!5$	0.20	0
2	HEM	А	401[A]	1,5	27,50,50	1.15	2 (7%)	17,82,82	1.80	<mark>5 (29%)</mark>
3	GOL	А	407	-	5, 5, 5	0.11	0	$5,\!5,\!5$	0.14	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	GOL	В	404	-	-	2/4/4/4	-
2	HEM	В	401[A]	1,5	-	0/6/54/54	-
3	GOL	А	402[A]	-	-	0/4/4/4	-
3	GOL	А	406	-	-	1/4/4/4	-
3	GOL	А	405	-	-	2/4/4/4	-
3	GOL	А	402[B]	-	-	0/4/4/4	-
3	GOL	В	402	-	-	4/4/4/4	-
2	HEM	В	401[B]	1,5	-	0/6/54/54	_



Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	В	405	-	-	0/4/4/4	-
2	HEM	А	401[B]	1,5	-	0/6/54/54	-
3	GOL	А	404	-	-	2/4/4/4	-
3	GOL	А	403	-	-	0/4/4/4	-
3	GOL	В	403	-	-	0/4/4/4	-
2	HEM	А	401[A]	1,5	-	0/6/54/54	-
3	GOL	А	407	-	-	0/4/4/4	-

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The worst 5 of 11 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	А	401[B]	HEM	C4B-NB	-3.26	1.29	1.36
2	В	401[B]	HEM	C3B-C2B	-3.00	1.36	1.40
2	А	401[B]	HEM	C4D-C3D	2.89	1.49	1.42
2	В	401[B]	HEM	C4D-C3D	2.68	1.48	1.42
2	А	401[B]	HEM	C3B-C2B	-2.68	1.36	1.40

The worst 5 of 19 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\mathbf{Ideal}(^{o})$
2	В	401[A]	HEM	C1D-C2D-C3D	-4.10	104.15	107.00
2	А	401[A]	HEM	C1D-C2D-C3D	-3.61	104.48	107.00
2	А	401[A]	HEM	CAA-CBA-CGA	-3.45	106.88	112.67
2	В	401[A]	HEM	CAA-CBA-CGA	-3.27	107.18	112.67
2	В	401[A]	HEM	CBD-CAD-C3D	-3.06	106.83	112.48

There are no chirality outliers.

5 of 11 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	В	404	GOL	O1-C1-C2-C3
3	В	402	GOL	O1-C1-C2-C3
3	В	402	GOL	C1-C2-C3-O3
3	А	406	GOL	O1-C1-C2-C3
3	А	404	GOL	C1-C2-C3-O3

There are no ring outliers.

5 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	401[A]	HEM	1	0
				<i>.</i>	

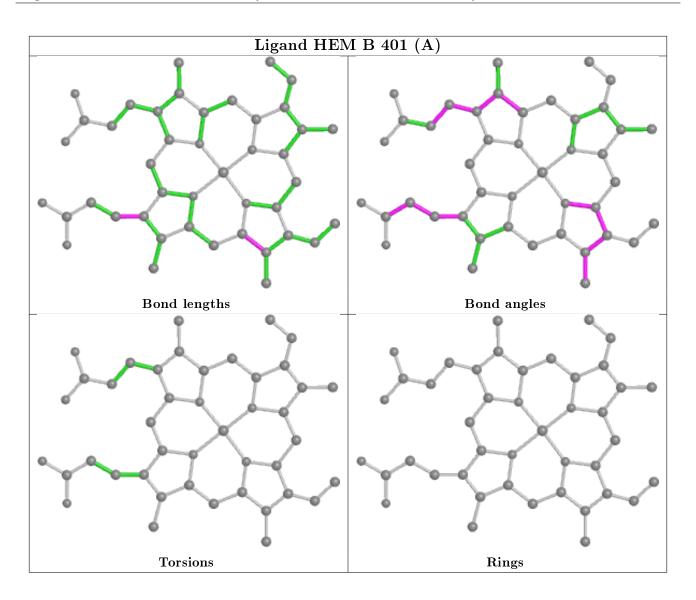


001111	naca jion	i previou	s paye		
Mol	Chain	\mathbf{Res}	Type	Clashes	Symm-Clashes
3	В	402	GOL	1	0
2	В	401[B]	HEM	2	0
2	А	401[B]	HEM	3	0
2	А	401[A]	HEM	1	0

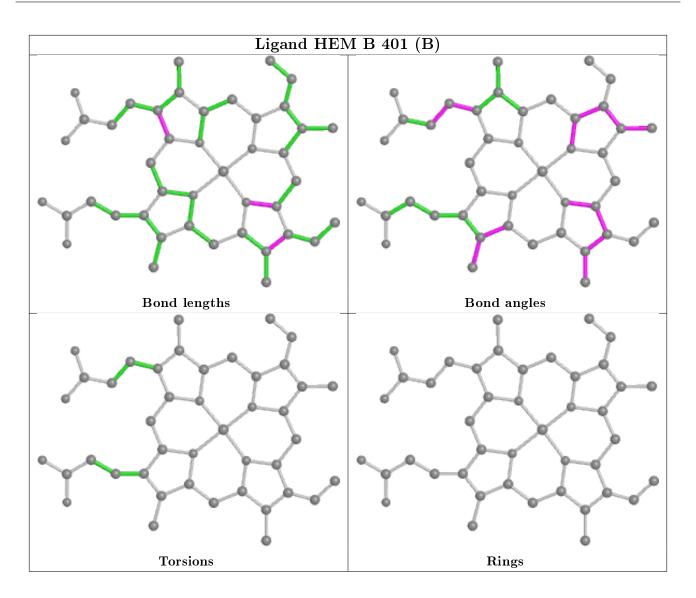
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The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers 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 sufficient 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.

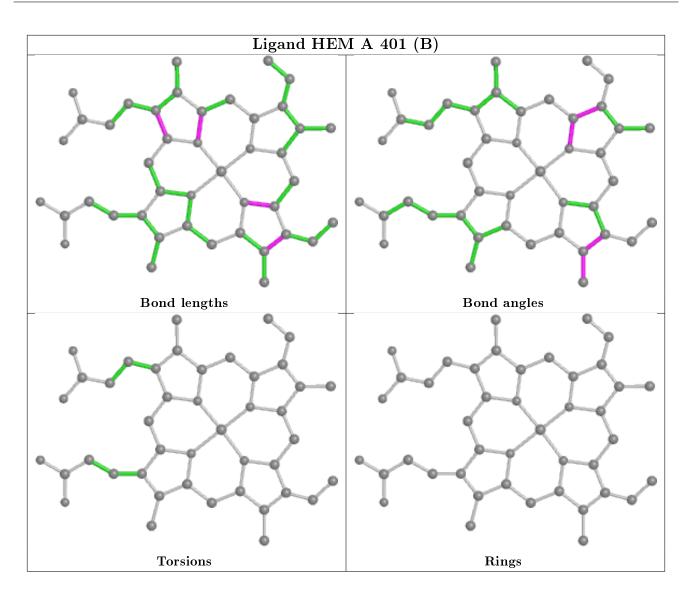




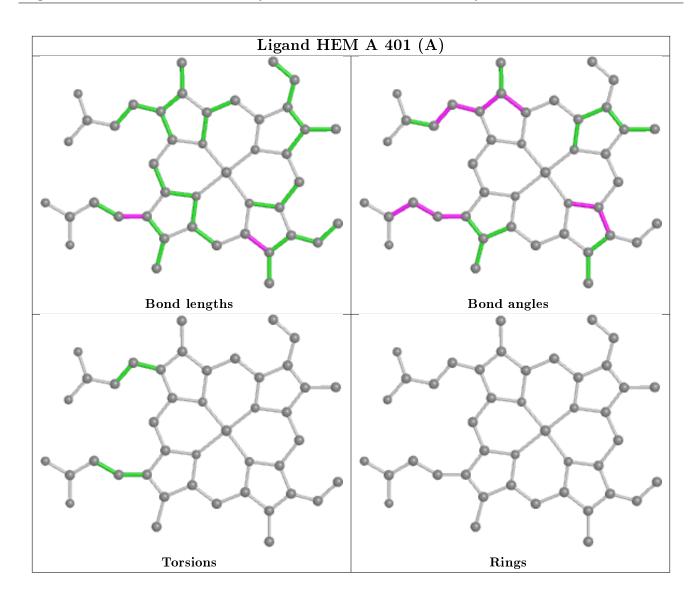












5.7 Other polymers (i)

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, 95th 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		$\mathbf{OWAB}(\mathbf{\AA}^2)$	Q<0.9
1	А	301/303~(99%)	-0.21	3 (0%) 82 8	84	3, 8, 30, 46	0
1	В	298/303~(98%)	-0.20	1 (0%) 94	94	3, 9, 31, 67	0
All	All	599/606~(98%)	-0.20	4 (0%) 87 8	88	3,9,31,67	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	300	GLY	7.4
1	А	1	MET	3.5
1	А	297[A]	GLN	2.3
1	А	0	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	\mathbf{Res}	Atoms	RSCC	RSR	${f B} ext{-factors}({f A}^2)$	Q < 0.9
3	GOL	В	403	6/6	0.71	0.19	$43,\!43,\!45,\!45$	0

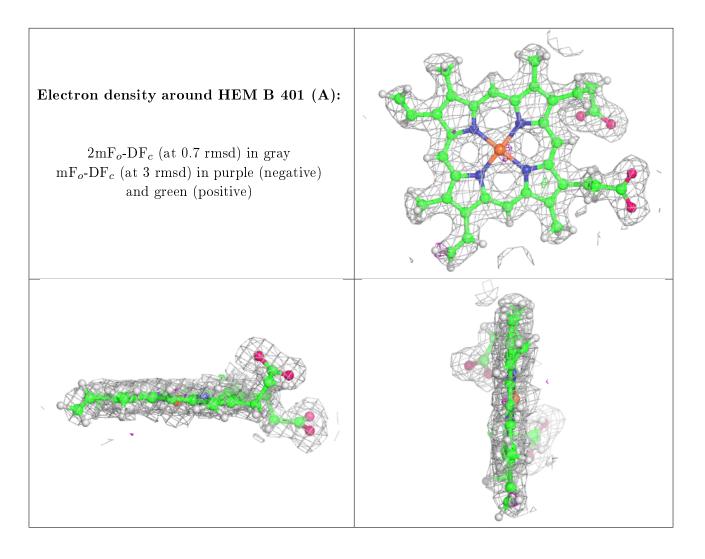


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} extsf{-factors}(\mathbf{A}^2)$	Q<0.9
3	GOL	В	404	6/6	0.79	0.27	21,21,21,21	0
3	GOL	В	405	6/6	0.81	0.23	$20,\!20,\!20,\!20$	0
3	GOL	А	406	6/6	0.82	0.26	$21,\!21,\!21,\!21$	0
3	GOL	А	404	6/6	0.84	0.20	24,29,32,32	0
3	GOL	А	405	6/6	0.84	0.22	21,21,21,21	0
3	GOL	A	407	6/6	0.86	0.29	$21,\!21,\!21,\!21$	0
3	GOL	А	403	6/6	0.88	0.19	$23,\!28,\!31,\!31$	0
3	GOL	В	402	6/6	0.89	0.19	21,29,32,33	0
3	GOL	А	402[B]	6/6	0.91	0.19	$15,\!15,\!18,\!18$	14
3	GOL	А	402[A]	6/6	0.91	0.19	$19,\!20,\!23,\!23$	14
4	MG	А	408	1/1	0.97	0.07	20,20,20,20	0
2	HEM	В	401[A]	43/43	0.98	0.09	$3,\!3,\!4,\!6$	73
2	HEM	А	401[B]	43/43	0.98	0.09	$3,\!3,\!5,\!6$	0
2	HEM	А	401[A]	43/43	0.98	0.09	$3,\!3,\!4,\!6$	73
2	HEM	В	401[B]	43/43	0.98	0.09	$3,\!3,\!4,\!5$	0
4	MG	В	406	1/1	0.99	0.06	14, 14, 14, 14	0

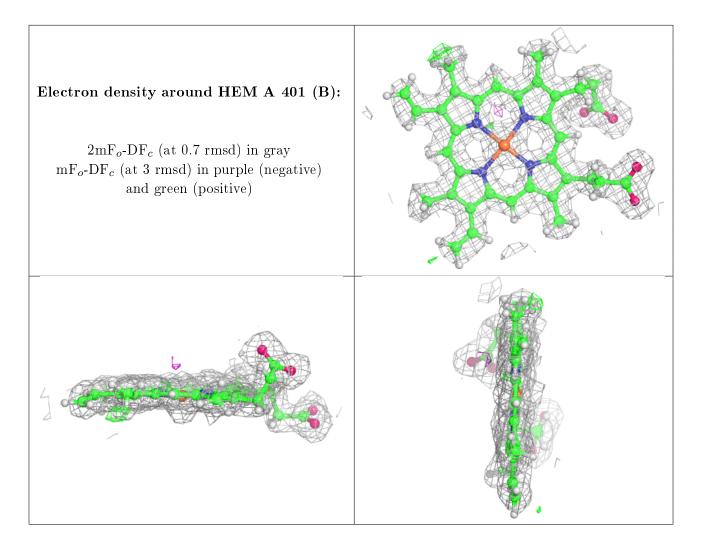
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The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also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

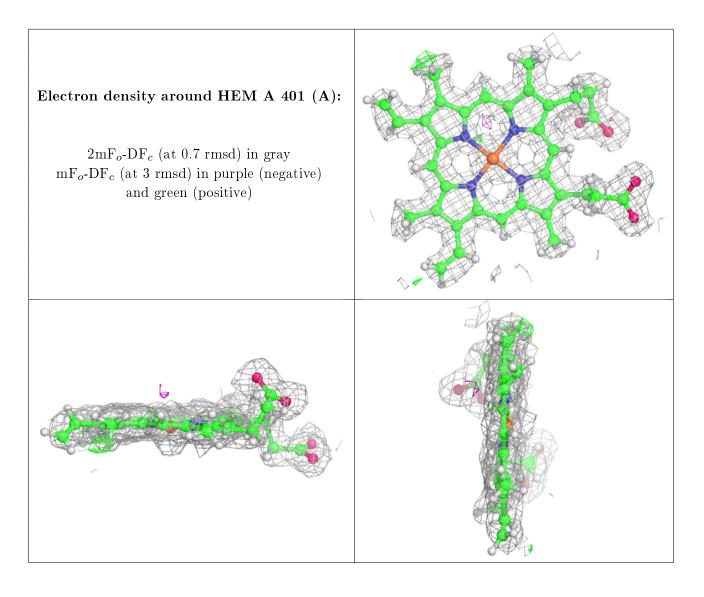




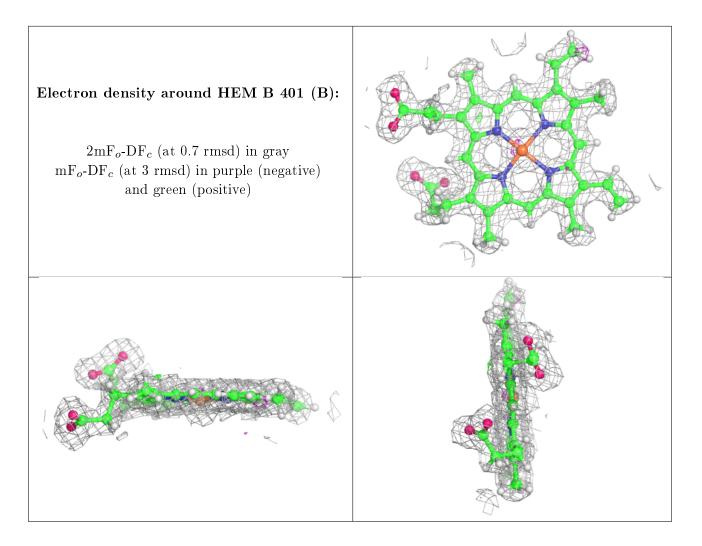












6.5 Other polymers (i)

There are no such residues in this entry.

