

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

#### Nov 3, 2023 – 05:27 AM EDT

PDB ID : 3WFC

Title : Reduced and carbonmonoxide-bound cytochrome c-dependent nitric oxide re-

ductase (cNOR) from Pseudomonas aeruginosa in complex with antibody frag-

ment

Authors: Sato, N.; Ishii, S.; Hino, T.; Sugimoto, H.; Fukumori, Y.; Shiro, Y.; Tosha, T.

Deposited on : 2013-07-18

Resolution : 2.50 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 (i)) 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)

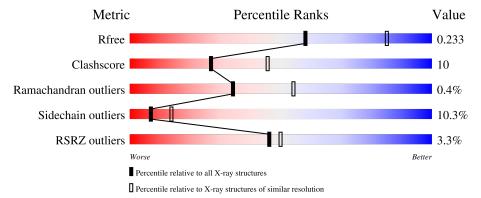
Validation Pipeline (wwPDB-VP) : 2.36

## 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 2.50 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	$(\# \mathrm{Entries})$	$(\#  ext{Entries},  ext{ resolution range}(\mathring{A}))$
$R_{free}$	130704	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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	L	213	78%	17%		_
2	Н	225	76%	20%		•
3	В	465	74%	18%	5%	-
4	С	146	84%	9%	•	<del>-</del>



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
7	CMO	В	804	-	-	X	-



# 2 Entry composition (i)

There are 11 unique types of molecules in this entry. The entry contains 8541 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 antibody fab fragment light chain.

Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf	Trace
1	T.	213	Total	С	N	О	S	0	0	0
1	ь	210	1669	1047	277	338	7			

• Molecule 2 is a protein called antibody fab fragment heavy chain.

$\mathbf{Mol}$	Chain	Residues		$\mathbf{At}$	oms			ZeroOcc	AltConf	Trace
2	Н	225	Total 1692	C 1065	N 280	O 338	S 9	0	0	0

• Molecule 3 is a protein called Nitric oxide reductase subunit B.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
3	В	449	Total 3576	C 2416	N 563	O 572	S 25	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	?	-	ARG	deletion	UNP Q59647

• Molecule 4 is a protein called Nitric oxide reductase subunit C.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
4	С	142	Total 1123	C 720	N 195	O 202	S 6	0	0	0

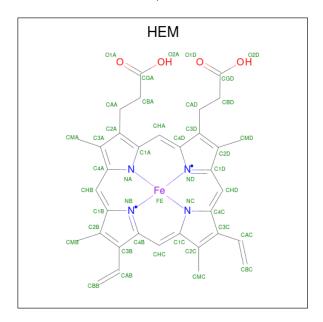
There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
С	100	LYS	ASN	conflict	UNP Q59646

• Molecule 5 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (for-



 $mula:\ C_{34}H_{32}FeN_4O_4\big).$ 



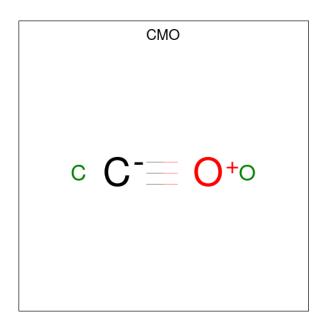
Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf	
5	B	1	Total	С	Fe	N	О	0	0	
9	D	1	43	34	1	4	4	0	U	
5	D	1	Total	С	Fe	N	О	0	0	
)	Б	1	43	34	1	4	4	U	U	

• Molecule 6 is FE (III) ION (three-letter code: FE) (formula: Fe).

$\mathbf{Mol}$	Chain	Residues	Atoms	ZeroOcc	AltConf
6	В	1	Total Fe 1 1	0	0

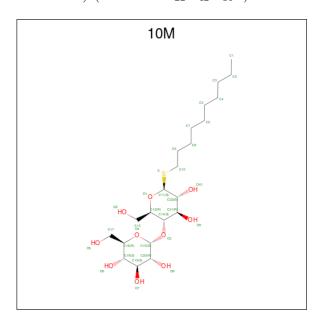
• Molecule 7 is CARBON MONOXIDE (three-letter code: CMO) (formula: CO).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	В	1	Total C O 2 1 1	0	0
7	В	1	Total C O 2 1 1	0	0

• Molecule 8 is decyl 4-O-alpha-D-glucopyranosyl-1-thio-beta-D-glucopyranoside (three-letter code: 10M) (formula:  $C_{22}H_{42}O_{10}S$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
8	В	1	Total 33	C 22	O 10	S 1	0	0

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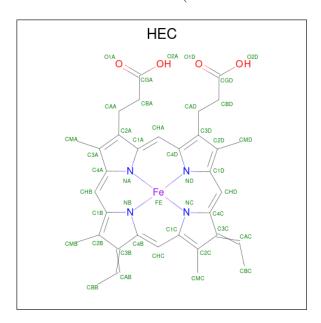
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
Q	D	1	Total	С	О	S	0	0
0	Б	1	33	22	10	1	0	U

• Molecule 9 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	В	1	Total Ca 1 1	0	0

• Molecule 10 is HEME C (three-letter code: HEC) (formula:  $C_{34}H_{34}FeN_4O_4$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
10	C	1	Total	С	Fe	N	О	0	0
10	C	1	43	34	1	4	4	0	0

• Molecule 11 is water.

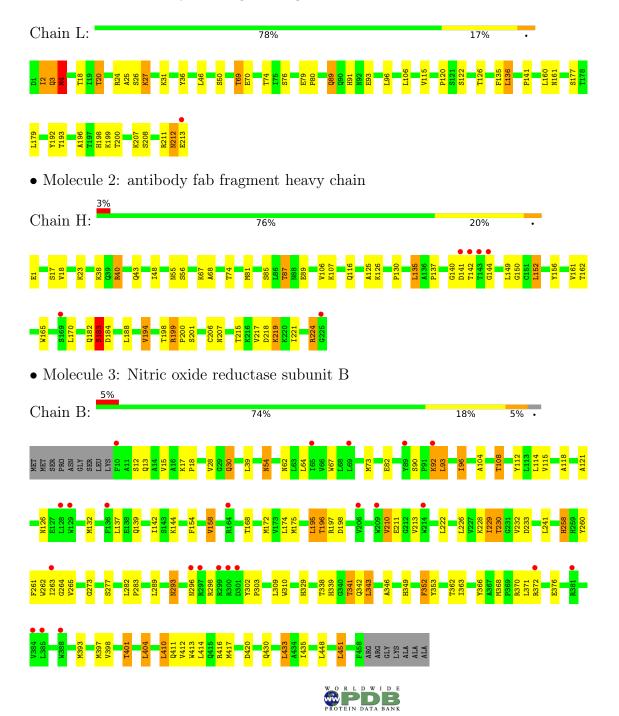
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
11	L	90	Total O 90 90	0	0
11	Н	86	Total O 86 86	0	0
11	В	52	Total O 52 52	0	0
11	С	52	Total O 52 52	0	0



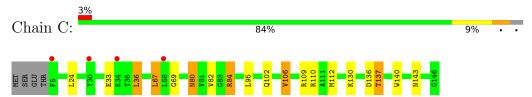
# 3 Residue-property plots (i)

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: antibody fab fragment light chain



• Molecule 4: Nitric oxide reductase subunit C





# 4 Data and refinement statistics (i)

Property	Value	Source	
Space group	P 21 21 21	Depositor	
Cell constants	90.67Å 107.07Å 196.92Å	Donositor	
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor	
Resolution (Å)	33.37 - 2.50	Depositor	
Resolution (A)	33.35 - 2.50	EDS	
% Data completeness	98.6 (33.37-2.50)	Depositor	
(in resolution range)	98.7 (33.35-2.50)	EDS	
$R_{merge}$	0.08	Depositor	
$R_{sym}$	0.08	Depositor	
$< I/\sigma(I) > 1$	3.34 (at 2.51Å)	Xtriage	
Refinement program	REFMAC 5.7.0029	Depositor	
D D.	0.191 , 0.232	Depositor	
$R, R_{free}$	0.191 , 0.233	DCC	
$R_{free}$ test set	3348 reflections (5.09%)	wwPDB-VP	
Wilson B-factor (Å <sup>2</sup> )	47.4	Xtriage	
Anisotropy	0.392	Xtriage	
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.33 , 43.1	EDS	
L-test for twinning <sup>2</sup>	$ < L >=0.51, < L^2>=0.34$	Xtriage	
Estimated twinning fraction	No twinning to report.	Xtriage	
$F_o, F_c$ correlation	0.95	EDS	
Total number of atoms	8541	wwPDB-VP	
Average B, all atoms (Å <sup>2</sup> )	54.0	wwPDB-VP	

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.23% 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: FE, HEC, 10M, HEM, CA, CMO

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	Во	ond angles
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	L	0.76	0/1709	0.86	$2/2317 \ (0.1\%)$
2	Н	0.75	0/1735	0.89	4/2367~(0.2%)
3	В	0.63	0/3693	0.74	1/5039~(0.0%)
4	С	0.60	0/1153	0.77	1/1559~(0.1%)
All	All	0.68	0/8290	0.80	8/11282 (0.1%)

There are no bond length outliers.

The worst 5 of 8 bond angle outliers are listed below:

Mol	ol Chain Res Type		Atoms	Atoms Z		$\operatorname{Ideal}({}^{o})$	
2	Н	224	ARG	NE-CZ-NH1	6.00	123.30	120.30
1	L	4	MET	CB-CG-SD	-5.70	95.30	112.40
2	Н	224	ARG	NE-CZ-NH2	-5.70	117.45	120.30
2	Н	206	CYS	CA-CB-SG	-5.56	103.99	114.00
3	В	198	ASP	CB-CG-OD1	5.40	123.16	118.30

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	L	1669	0	1606	34	0
2	Н	1692	0	1647	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	В	3576	0	3619	87	0
4	С	1123	0	1092	25	0
5	В	86	0	60	10	0
6	В	1	0	0	0	0
7	В	4	0	0	3	0
8	В	66	0	84	4	0
9	В	1	0	0	0	0
10	С	43	0	30	1	0
11	В	52	0	0	1	0
11	С	52	0	0	1	0
11	Н	86	0	0	2	0
11	L	90	0	0	1	0
All	All	8541	0	8138	167	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 10.

The worst 5 of 167 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{aligned} &  ext{Interatomic} \ &  ext{distance} \ &  ext{(Å)} \end{aligned}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
2:H:107:LYS:HB2	11:H:319:HOH:O	1.63	0.99
3:B:121:ALA:HA	3:B:132:MET:HE1	1.47	0.96
3:B:211:GLU:OE2	7:B:805:CMO:C	2.13	0.95
8:B:806:10M:H17	8:B:807:10M:O8	1.69	0.93
2:H:48:ILE:HG21	2:H:81:MET:HE1	1.51	0.90

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	Percentiles	
1	L	211/213 (99%)	200 (95%)	10 (5%)	1 (0%)	29	48	
2	Н	223/225 (99%)	211 (95%)	9 (4%)	3 (1%)	12	21	
3	В	447/465 (96%)	426 (95%)	21 (5%)	0	100	100	
4	С	140/146 (96%)	136 (97%)	4 (3%)	0	100	100	
All	All	1021/1049 (97%)	973 (95%)	44 (4%)	4 (0%)	34	54	

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	Н	141	ASP
1	L	211	ARG
2	Н	183	SER
2	Н	144	GLY

#### 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	entiles
1	L	189/189 (100%)	173 (92%)	16 (8%)	10	21
2	Н	192/192 (100%)	168 (88%)	24 (12%)	4	8
3	В	$360/371 \ (97\%)$	319 (89%)	41 (11%)	5	11
4	C	116/120 (97%)	109 (94%)	7 (6%)	19	37
All	All	857/872 (98%)	769 (90%)	88 (10%)	7	14

5 of 88 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	В	229	ILE
3	В	372	ARG
3	В	233	ASP
3	В	329	HIS
3	В	410	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 23



such sidechains are listed below:

Mol	Chain	Res	Type
3	В	383	GLN
4	С	31	HIS
3	В	430	GLN
4	С	60	ASN
1	L	190	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)

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 9 ligands modelled in this entry, 2 are monoatomic - leaving 7 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).

Mol	Trino	Chain	Res	Link	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
5	HEM	В	801	3,9	41,50,50	1.94	7 (17%)	45,82,82	2.92	20 (44%)
8	10M	В	806	-	34,34,34	1.18	3 (8%)	44,45,45	1.36	6 (13%)
8	10M	В	807	-	34,34,34	1.64	7 (20%)	44,45,45	1.20	4 (9%)
10	HEC	С	201	4	32,50,50	2.24	5 (15%)	24,82,82	2.14	7 (29%)
7	CMO	В	804	5	0,1,1	-	-	-		
7	CMO	В	805	6	0,1,1	-	-	-		
5	HEM	В	802	9,3,7	41,50,50	1.93	6 (14%)	45,82,82	2.63	23 (51%)



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	HEM	В	801	3,9	-	2/12/54/54	-
8	10M	В	806	-	-	8/19/59/59	0/2/2/2
8	10M	В	807	-	-	8/19/59/59	0/2/2/2
10	HEC	С	201	4	-	2/10/54/54	-
5	HEM	В	802	9,3,7	-	5/12/54/54	-

The worst 5 of 28 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$Ideal(\AA)$
5	В	802	HEM	C3D-C2D	8.03	1.53	1.36
5	В	801	HEM	C3D-C2D	7.60	1.52	1.36
10	С	201	HEC	C3C-C2C	-7.40	1.33	1.40
10	С	201	HEC	C2B-C3B	-5.94	1.34	1.40
10	С	201	HEC	C3D-C2D	4.73	1.51	1.37

The worst 5 of 60 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
5	В	801	HEM	C2C-C3C-C4C	8.23	112.64	106.90
5	В	801	HEM	C4D-ND-C1D	7.66	112.99	105.07
5	В	801	HEM	CHC-C4B-NB	6.62	131.62	124.43
5	В	802	HEM	CMD-C2D-C1D	6.50	134.93	125.04
5	В	801	HEM	C4C-CHD-C1D	5.90	130.34	122.56

There are no chirality outliers.

5 of 25 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	В	806	10M	C22-C11-S-C10
8	В	806	10M	O4-C16-C17-O5
8	В	806	10M	C18-C16-C17-O5
8	В	806	10M	C7-C8-C9-C10
8	В	806	10M	C4-C5-C6-C7

There are no ring outliers.

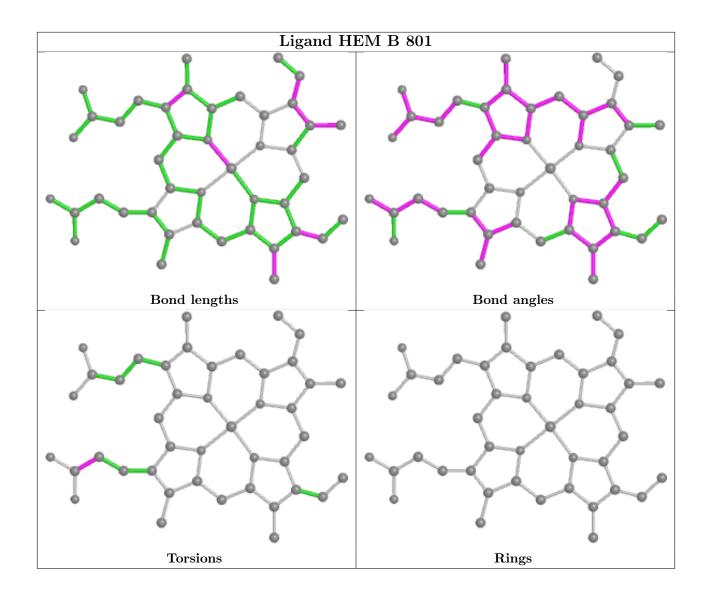
7 monomers are involved in 16 short contacts:



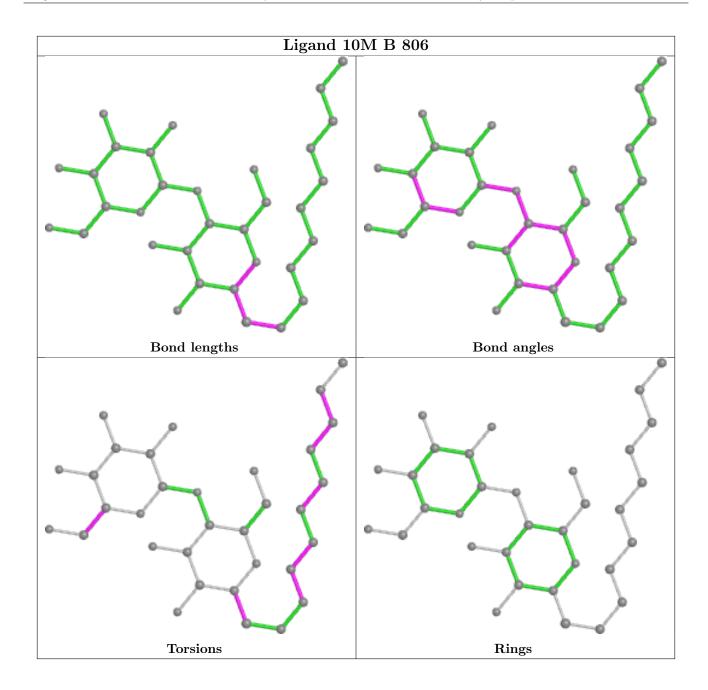
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	В	801	HEM	5	0
8	В	806	10M	2	0
8	В	807	10M	4	0
10	С	201	HEC	1	0
7	В	804	CMO	2	0
7	В	805	CMO	1	0
5	В	802	HEM	5	0

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.

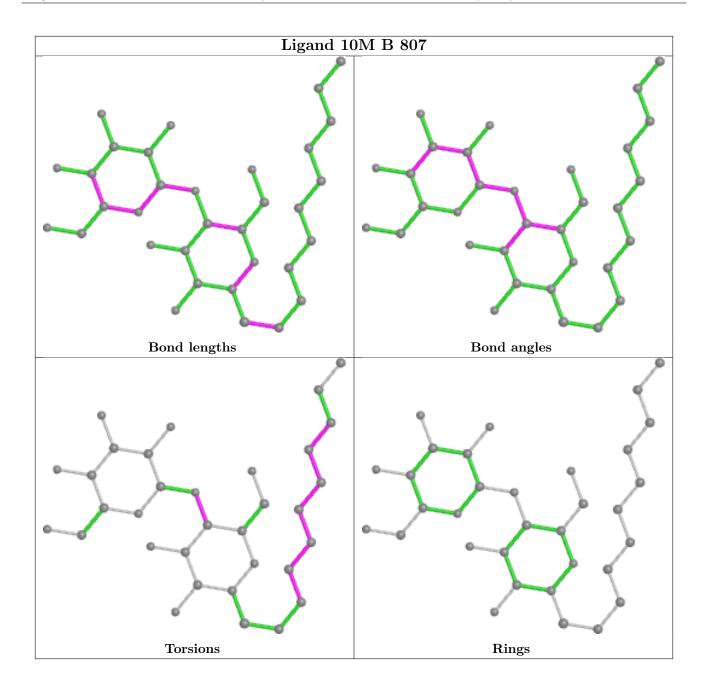




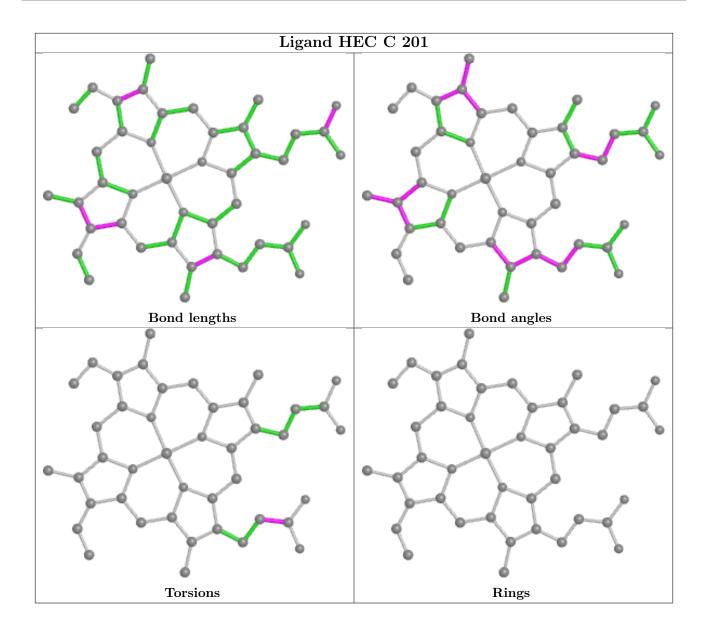




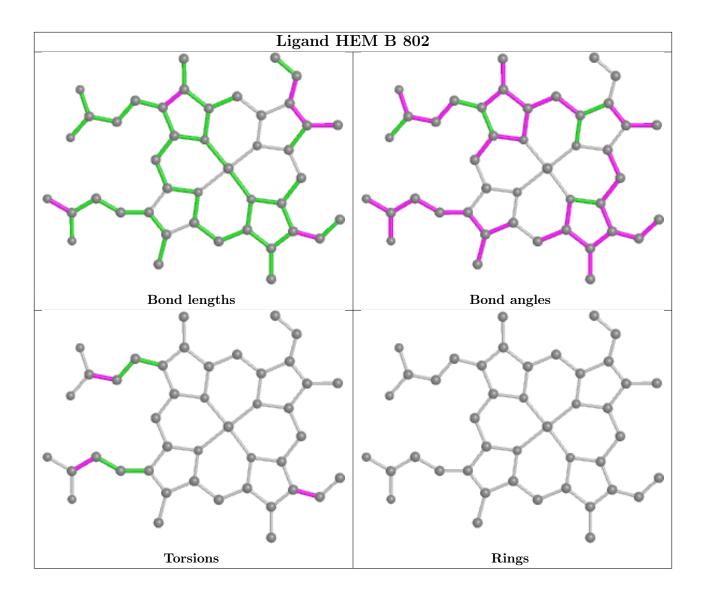












# 5.7 Other polymers (i)

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>	$\#\mathrm{RSRZ}{>}2$	$OWAB(\AA^2)$	Q<0.9
1	L	213/213 (100%)	-0.45	1 (0%) 91 91	33, 44, 62, 108	0
2	Н	225/225 (100%)	-0.33	6 (2%) 54 58	33, 43, 72, 134	0
3	В	449/465 (96%)	-0.04	23 (5%) 28 29	37, 58, 96, 124	0
4	С	142/146 (97%)	-0.05	4 (2%) 53 56	35, 56, 80, 99	0
All	All	1029/1049 (98%)	-0.19	34 (3%) 46 50	33, 52, 87, 134	0

The worst 5 of 34 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	В	381	ARG	5.6
3	В	299	ARG	5.3
2	Н	143	THR	5.0
2	Н	225	GLY	3.8
1	L	213	GLU	3.8

#### 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.

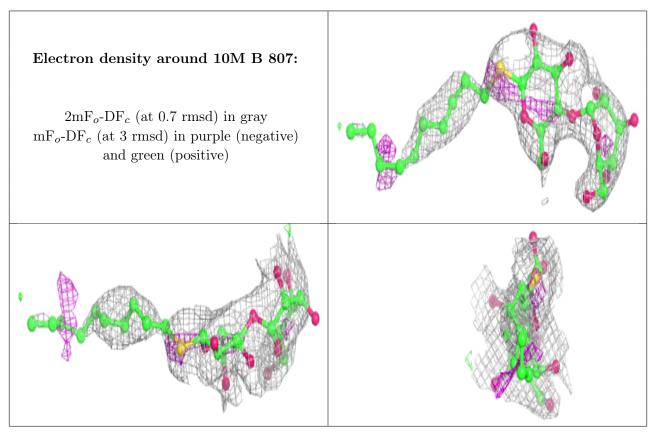
### 6.4 Ligands (i)

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.

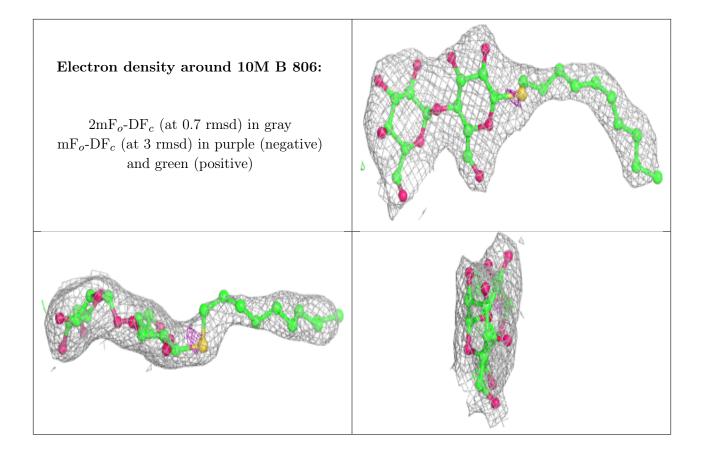


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
8	10M	В	807	33/33	0.81	0.41	73,91,107,108	0
8	10M	В	806	33/33	0.93	0.25	65,74,87,89	0
5	HEM	В	801	43/43	0.97	0.18	37,40,45,49	0
5	HEM	В	802	43/43	0.98	0.21	36,40,43,44	0
6	FE	В	803	1/1	0.98	0.13	42,42,42,42	0
7	CMO	В	804	2/2	0.99	0.19	40,40,40,41	0
7	CMO	В	805	2/2	0.99	0.21	39,39,39,40	0
10	HEC	С	201	43/43	0.99	0.16	35,37,39,41	0
9	CA	В	808	1/1	1.00	0.20	46,46,46,46	0

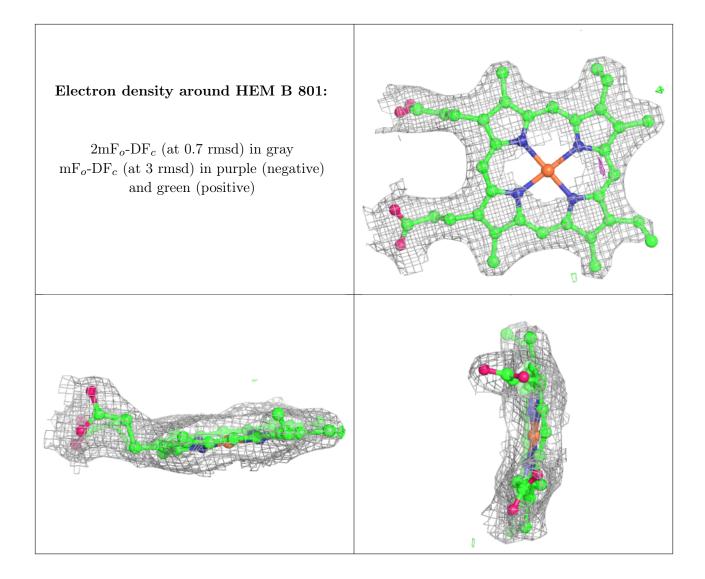
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



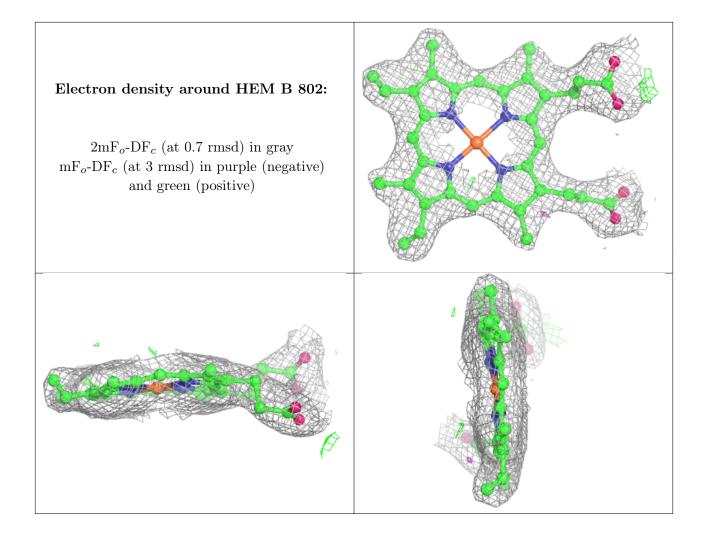




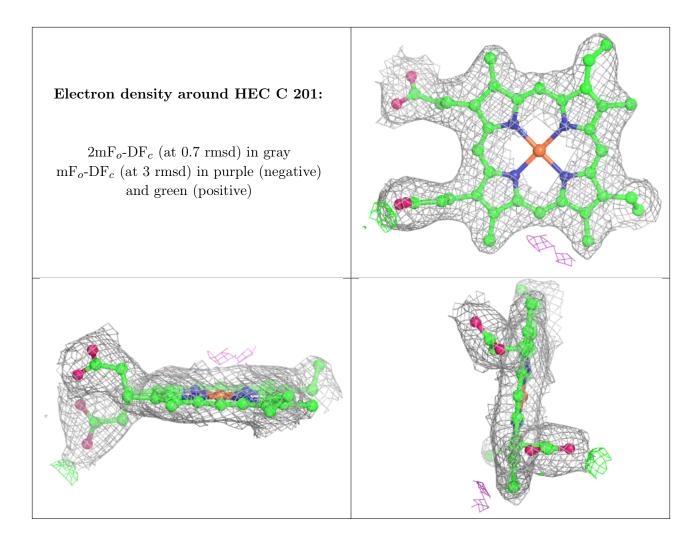












## 6.5 Other polymers (i)

There are no such residues in this entry.

