

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

#### Dec 13, 2021 – 09:08 pm GMT

PDB ID	:	7OU5
Title	:	Crystal structure of dimeric chlorite dismutase from Cyanothece sp. PCC7425
		in complex with nitrite
Authors	:	Schmidt, D.; Mlynek, G.; Djinovic-Carugo, K.; Obinger, C.
Deposited on	:	2021-06-11
Resolution	:	1.90 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 following versions of software and data (see references (1)) were used in the production of this report:

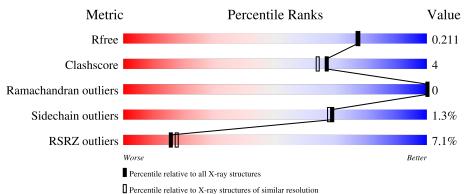
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.24
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.24

# 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 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	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 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	188	<u>6%</u> 87%	9% ••
1	В	188	89%	7% • •



# 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 6456 atoms, of which 3050 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 Chlorite Dismutase.

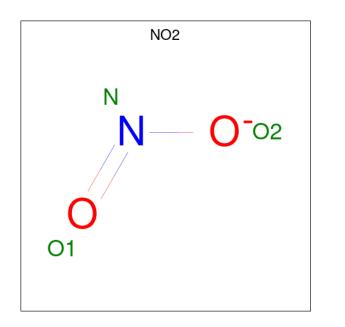
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	А	182	Total 3004	C 964	Н 1497	N 272	O 267	${f S}$ $4$	0	2	0
1	В	182	Total 2989	C 960		N 270	O 265	${S \atop 4}$	0	0	0

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP B8HNS6
А	-4	PRO	-	expression tag	UNP B8HNS6
А	-3	GLY	-	expression tag	UNP B8HNS6
А	-2	TYR	-	expression tag	UNP B8HNS6
А	-1	GLN	-	expression tag	UNP B8HNS6
А	0	ASP	-	expression tag	UNP B8HNS6
А	1	PRO	-	expression tag	UNP B8HNS6
В	-5	GLY	-	expression tag	UNP B8HNS6
В	-4	PRO	-	expression tag	UNP B8HNS6
В	-3	GLY	-	expression tag	UNP B8HNS6
В	-2	TYR	-	expression tag	UNP B8HNS6
В	-1	GLN	-	expression tag	UNP B8HNS6
В	0	ASP	-	expression tag	UNP B8HNS6
В	1	PRO	-	expression tag	UNP B8HNS6

There are 14 discrepancies between the modelled and reference sequences:

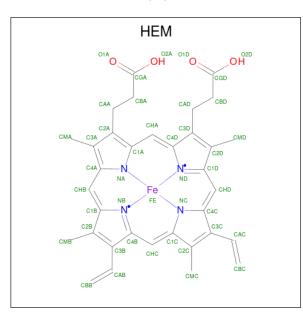
• Molecule 2 is NITRITE ION (three-letter code: NO2) (formula: NO<sub>2</sub>) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	TotalNO312	0	0
2	В	1	TotalNO312	0	0

• Molecule 3 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: C<sub>34</sub>H<sub>32</sub>FeN<sub>4</sub>O<sub>4</sub>) (labeled as "Ligand of Interest" by depositor).



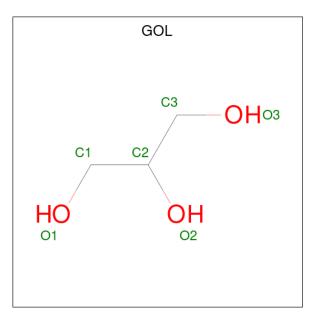
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
3	А	1	Total 73	С 34	Fe 1	Н 30	N 4	0 4	0	0



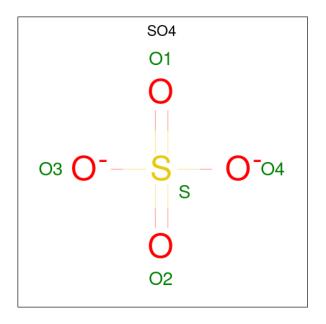
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
3	В	1	Total 73	С 34	Fe 1	Н 30	N 4	0 4	0	0

• Molecule 4 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



Mo	Chain	Residues	Atoms				ZeroOcc	AltConf
4	В	1	Total 9	C 3	Н 3	O 3	0	0





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

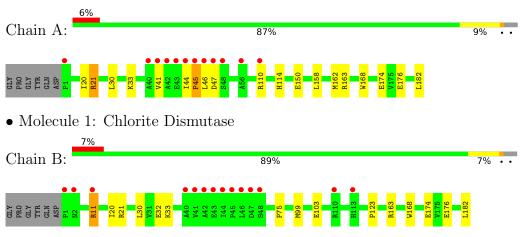
• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	152	Total O 152 152	0	0
6	В	145	Total O 145 145	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: Chlorite Dismutase



# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	51.75Å $52.76$ Å $54.68$ Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$107.14^{\circ}$ $98.83^{\circ}$ $109.56^{\circ}$	Depositor
Resolution (Å)	33.94 - 1.90	Depositor
nesolution (A)	42.81 - 1.82	EDS
% Data completeness	88.9 (33.94-1.90)	Depositor
(in resolution range)	89.0 (42.81-1.82)	EDS
R <sub>merge</sub>	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.15 (at 1.82 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.19.2_4158, PHENIX 1.19.2_4158	Depositor
$R, R_{free}$	0.181 , $0.211$	Depositor
It, It <i>free</i>	0.182 , $0.211$	DCC
$R_{free}$ test set	1037 reflections $(2.58%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	29.0	Xtriage
Anisotropy	0.445	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for $twinning^2$	$ L  > = 0.50, < L^2 > = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	6456	wwPDB-VP
Average B, all atoms $(Å^2)$	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 10.31% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<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: NO2, GOL, 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	Bond lengths		nd angles
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	А	0.52	0/1554	0.66	1/2102~(0.0%)
1	В	0.53	0/1535	0.64	0/2077
All	All	0.52	0/3089	0.65	1/4179~(0.0%)

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 mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	А	0	1
1	В	0	1
All	All	0	2

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	45	PRO	CA-N-CD	-5.76	103.43	111.50

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	А	21	ARG	Sidechain
1	В	11	ARG	Sidechain



### 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	1507	1497	1485	14	0
1	В	1499	1490	1492	8	0
2	А	3	0	0	0	0
2	В	3	0	0	0	0
3	А	43	30	30	0	0
3	В	43	30	30	2	0
4	В	6	3	8	0	0
5	В	5	0	0	0	0
6	А	152	0	0	2	0
6	В	145	0	0	1	0
All	All	3406	3050	3045	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 4.

All (24) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	overlap (Å)
1:B:163:ARG:NH1	1:B:174:GLU:OE2	2.08	0.86
1:A:41:VAL:O	6:A:401:HOH:O	2.00	0.80
1:B:163:ARG:NH2	1:B:176:GLU:OE2	2.15	0.79
1:A:45:PRO:O	1:A:45:PRO:HD2	2.04	0.57
1:B:11:ARG:NH1	6:B:303:HOH:O	2.39	0.54
1:A:163:ARG:NH1	6:A:403:HOH:O	2.37	0.53
1:A:33:LYS:HE2	1:A:182:LEU:HD11	1.95	0.49
1:A:158:LEU:O	1:A:162:MET:HG3	2.14	0.47
1:B:99:MET:HE3	1:B:103:GLU:HB3	1.98	0.46
3:B:203:HEM:HMC2	3:B:203:HEM:HBC2	1.99	0.45
1:A:163:ARG:NH2	1:A:174:GLU:OE1	2.49	0.45
1:A:44:ILE:HG22	1:A:45:PRO:CD	2.47	0.45
1:B:75:PRO:HG3	1:B:123:PRO:O	2.18	0.44
1:B:33:LYS:HD3	1:B:182:LEU:HD11	2.00	0.43
1:B:20:ILE:HD12	1:B:30:LEU:HA	2.00	0.43
1:A:44:ILE:HG22	1:A:45:PRO:HD2	2.01	0.43
1:A:46:LEU:O	1:A:47:ASP:OD1	2.36	0.43



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:20:ILE:HD12	1:A:30:LEU:HA	2.02	0.42
1:A:114:HIS:CE1	1:A:162:MET:HE3	2.55	0.41
1:A:21:ARG:HB3	1:A:176:GLU:HB2	2.02	0.41
1:A:45:PRO:O	1:A:45:PRO:CD	2.68	0.41
1:A:110:ARG:HG2	1:A:110:ARG:HH11	1.85	0.41
1:B:11:ARG:NH2	1:B:32:GLU:OE2	2.54	0.40
3:B:203:HEM:HBC2	3:B:203:HEM:CMC	2.52	0.40

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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	182/188~(97%)	178 (98%)	4 (2%)	0	100	100
1	В	180/188~(96%)	176 (98%)	4 (2%)	0	100	100
All	All	362/376~(96%)	354~(98%)	8 (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	157/159~(99%)	155~(99%)	2(1%)	69 68



Conti	nueu jron	<i>i previous page</i>			
Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	В	155/159~(98%)	153~(99%)	2(1%)	69 68
All	All	312/318~(98%)	308~(99%)	4 (1%)	69 68

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All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	150	GLU
1	А	168	TRP
1	В	21	ARG
1	В	168	TRP

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

Mol	Chain	Res	Type
1	В	38	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)

6 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	Turne	Chain	hain Res Link		Bond lengths				Bond angles		
10101	Type	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2	
3	HEM	В	203	1,2	27,50,50	2.00	8 (29%)	17,82,82	2.13	5 (29%)	
2	NO2	В	202	3	1,2,2	4.92	1 (100%)	0,1,1	-	-	
2	NO2	А	301	3	1,2,2	4.86	1 (100%)	0,1,1	-	-	
4	GOL	В	201	-	$5,\!5,\!5$	0.81	0	5,5,5	0.85	0	
5	SO4	В	204	-	4,4,4	0.15	0	6,6,6	0.10	0	
3	HEM	А	302	1,2	27,50,50	2.01	7 (25%)	17,82,82	2.17	4 (23%)	

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	HEM	В	203	1,2	-	0/6/54/54	-
4	GOL	В	201	-	-	0/4/4/4	-
3	HEM	А	302	1,2	-	0/6/54/54	-

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
3	А	302	HEM	C3B-C2B	-5.06	1.33	1.40
2	В	202	NO2	O1-N	4.92	1.47	1.22
2	А	301	NO2	O1-N	4.86	1.46	1.22
3	А	302	HEM	C3C-C2C	-4.07	1.34	1.40
3	В	203	HEM	C3C-C2C	-3.78	1.35	1.40
3	В	203	HEM	C3B-CAB	3.67	1.55	1.47
3	В	203	HEM	C3B-C2B	-3.63	1.35	1.40
3	А	302	HEM	C3B-CAB	3.58	1.55	1.47
3	В	203	HEM	C4B-NB	3.45	1.43	1.36
3	В	203	HEM	CAD-C3D	3.22	1.57	1.52
3	В	203	HEM	CAA-C2A	3.17	1.56	1.52
3	А	302	HEM	CAD-C3D	2.94	1.57	1.52
3	А	302	HEM	CAA-C2A	2.89	1.56	1.52
3	В	203	HEM	C3C-CAC	2.78	1.53	1.47
3	А	302	HEM	C3C-CAC	2.69	1.53	1.47
3	В	203	HEM	C4A-CHB	-2.12	1.35	1.41
3	А	302	HEM	C4B-NB	2.09	1.40	1.36

All (9) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$\mathbf{Ideal}(^{o})$
3	А	302	HEM	CAA-CBA-CGA	-5.14	104.04	112.67
3	В	203	HEM	CAA-CBA-CGA	-4.86	104.52	112.67
3	В	203	HEM	CMA-C3A-C4A	-4.27	121.90	128.46
3	А	302	HEM	CMA-C3A-C4A	-3.46	123.14	128.46
3	А	302	HEM	CBD-CAD-C3D	-3.32	106.36	112.48
3	А	302	HEM	CMD-C2D-C1D	-3.05	123.78	128.46
3	В	203	HEM	CMA-C3A-C2A	3.04	130.67	124.94
3	В	203	HEM	CBD-CAD-C3D	-3.01	106.94	112.48
3	В	203	HEM	CMD-C2D-C1D	-2.47	124.66	128.46

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

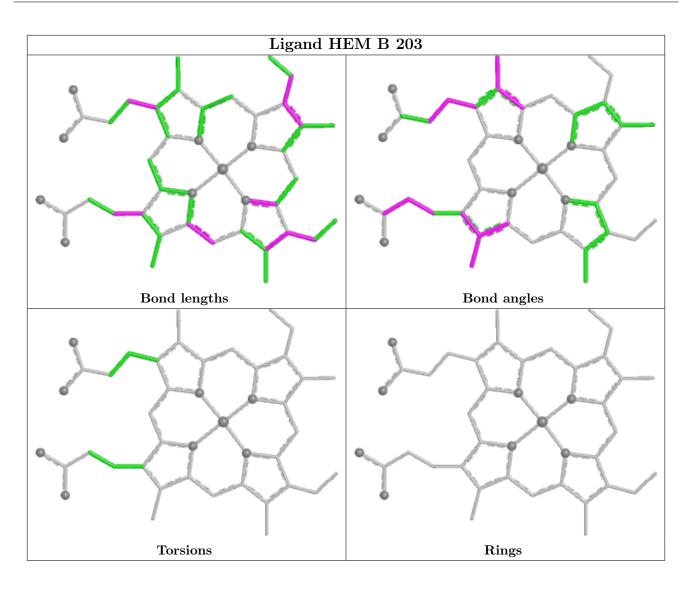
1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	203	HEM	2	0

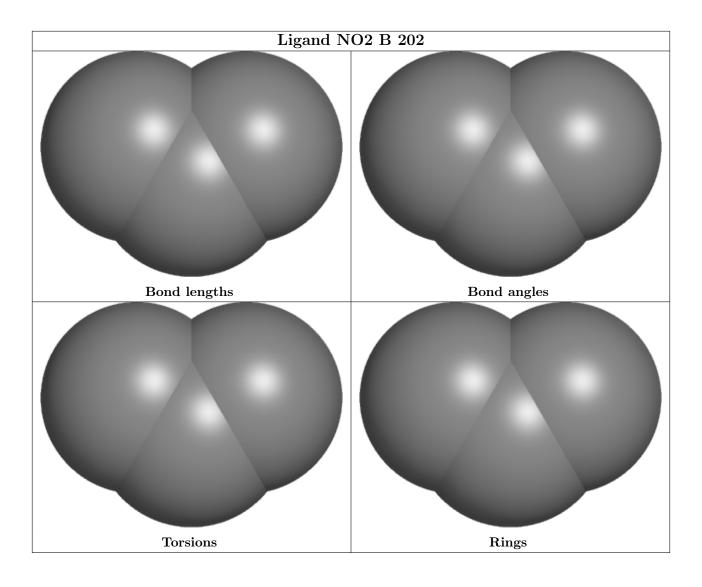
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 sufficient the outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



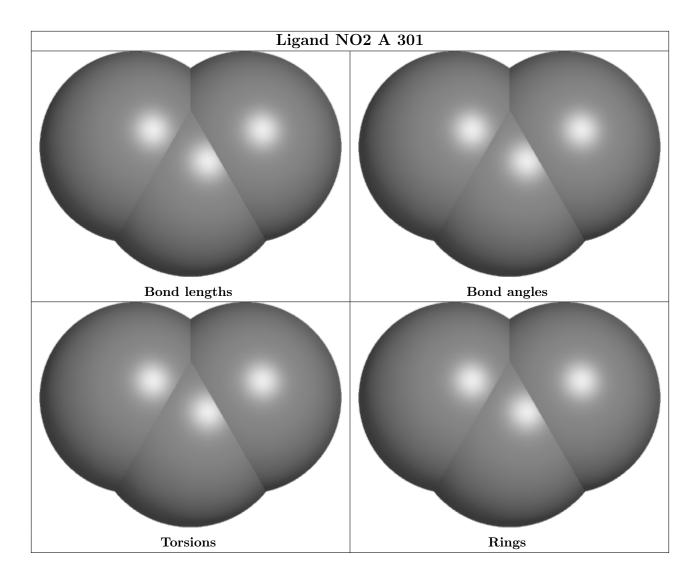






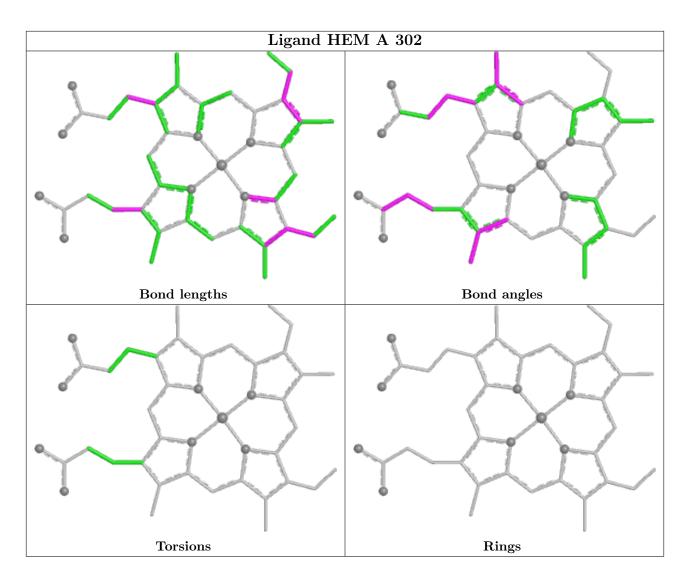












### 5.7 Other polymers (i)

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	$\langle RSRZ \rangle$	#RSRZ>2		$OWAB(Å^2)$	Q<0.9	
1	А	182/188~(96%)	0.74	12~(6%)	18	20	23, 38, 68, 112	0
1	В	182/188~(96%)	0.84	14 (7%)	13	15	22, 39, 69, 122	0
All	All	364/376~(96%)	0.79	26~(7%)	16	17	22, 38, 69, 122	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	42	ALA	13.4
1	А	41	VAL	13.1
1	В	44	ILE	12.2
1	В	41	VAL	12.1
1	В	46	LEU	11.9
1	А	44	ILE	11.8
1	В	40	ALA	11.7
1	А	43	GLU	8.1
1	В	42	ALA	7.9
1	А	47	ASP	7.4
1	А	46	LEU	7.3
1	В	43	GLU	6.9
1	В	1	PRO	6.9
1	А	40	ALA	6.5
1	В	47	ASP	5.6
1	А	1	PRO	5.5
1	В	45	PRO	5.2
1	В	2	ASN	3.1
1	В	110	ARG	2.9
1	В	48	SER	2.8
1	А	45	PRO	2.8
1	А	110	ARG	2.7
1	В	11	ARG	2.7
1	В	113	HIS	2.5



Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	А	48	SER	2.5
1	А	56	ALA	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.

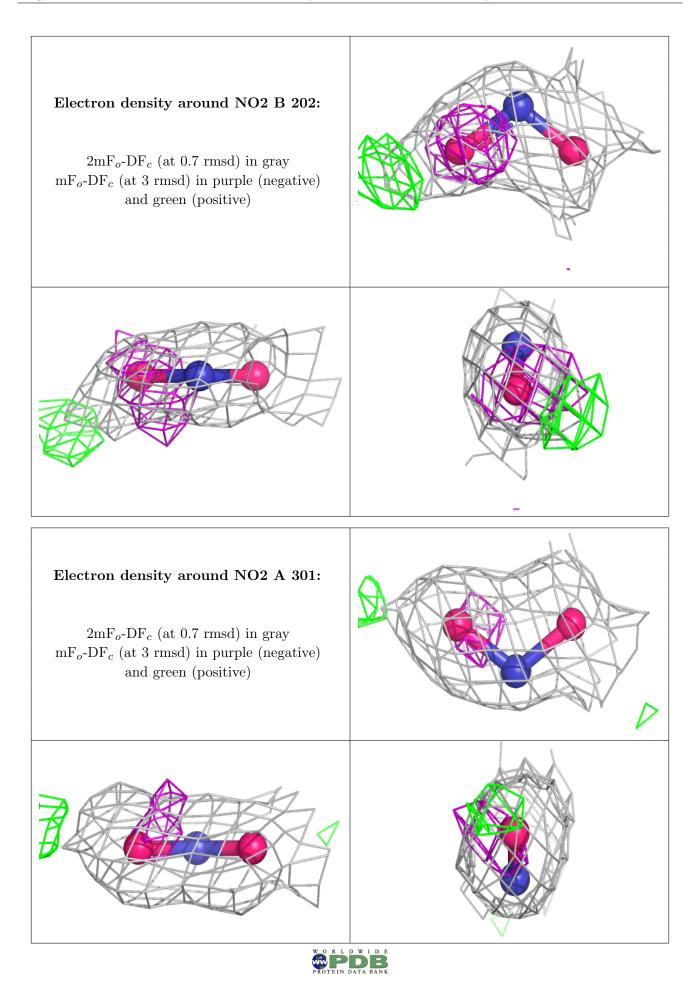
### 6.4 Ligands (i)

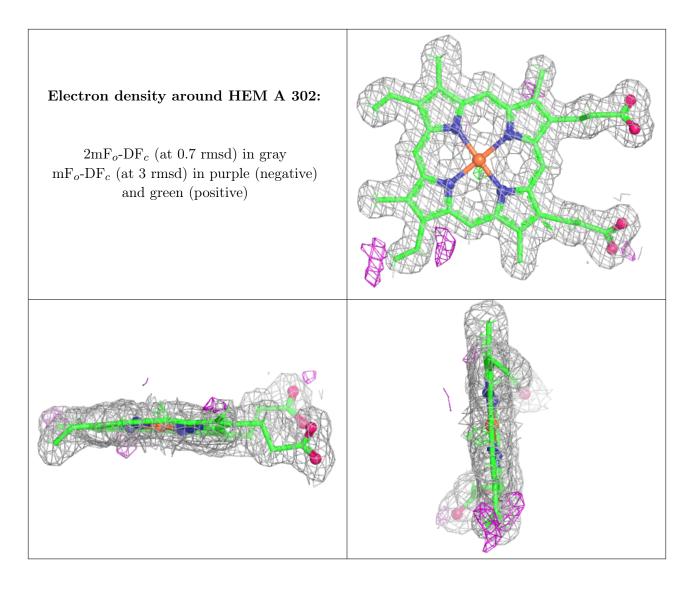
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} extsf{-}\mathbf{B} extsf{-}\mathbf{factors}(\mathbf{A}^2)$	Q<0.9
4	GOL	В	201	6/6	0.83	0.15	$34,\!41,\!47,\!50$	0
5	SO4	В	204	5/5	0.90	0.34	65,72,81,85	0
2	NO2	В	202	3/3	0.91	0.15	26,26,28,32	0
2	NO2	А	301	3/3	0.95	0.13	27,27,27,30	0
3	HEM	А	302	43/43	0.96	0.14	23,28,37,37	0
3	HEM	В	203	43/43	0.96	0.14	22,27,35,36	0

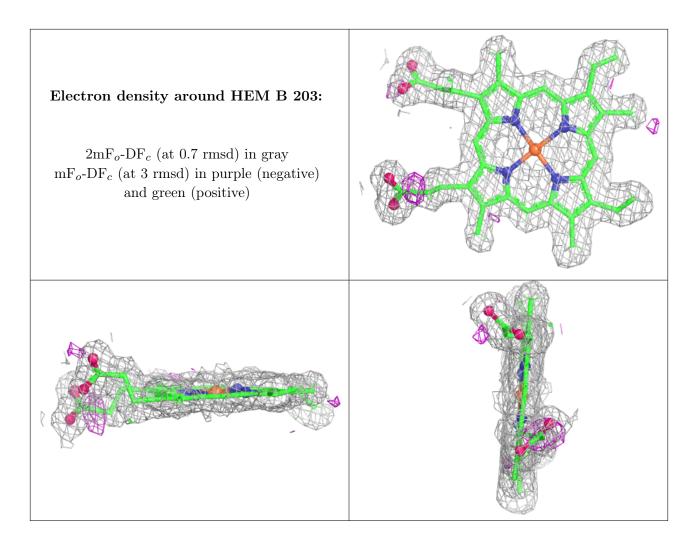
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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











## 6.5 Other polymers (i)

There are no such residues in this entry.

