



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 4, 2026 – 07:13 PM UTC

PDB ID : 7ATI / pdb\_00007ati  
Title : Crystal structure of dimeric chlorite dismutase variant Q74V (CCld Q74V)  
from *Cyanothece* sp. PCC7425  
Authors : Schmidt, D.; Mlynek, G.; Djinovic-Carugo, K.; Obinger, C.  
Deposited on : 2020-10-30  
Resolution : 1.51 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](mailto: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 ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtriage (Phenix) : 2.0  
EDS : 3.0  
Buster-report : wwPDB partial adaption of 1.1.7 (2018)  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
CCP4 : 9.0.010 (Gargrove)  
Density-Fitness : 1.0.12  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.49

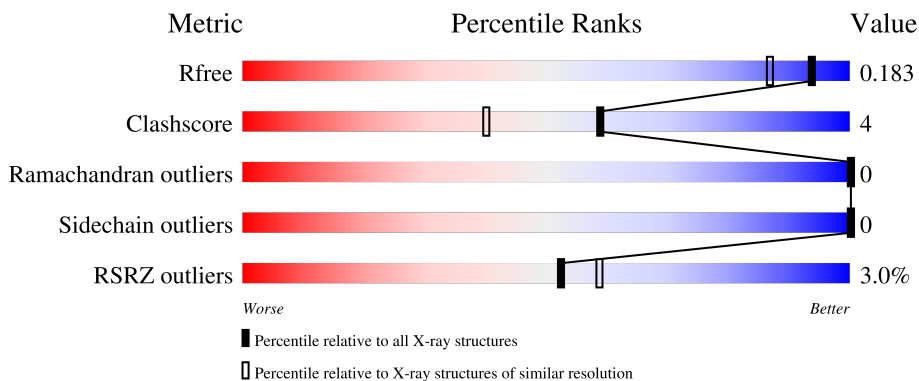
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

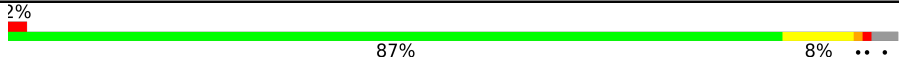
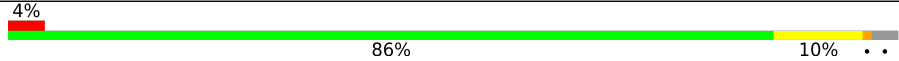
The reported resolution of this entry is 1.51 Å.

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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	180053	5890 (1.54-1.50)
Clashscore	190562	6116 (1.54-1.50)
Ramachandran outliers	187476	6002 (1.54-1.50)
Sidechain outliers	187428	5999 (1.54-1.50)
RSRZ outliers	180081	5891 (1.54-1.50)

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  $\geq 3$ , 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  $\leq 5\%$ . 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	188	 2% 87% 8% ...
1	B	188	 4% 86% 10% ...

## 2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 6751 atoms, of which 3144 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
			Total	C	H	N	O	S			
1	A	182	3058	980	1524	275	275	4	0	10	0
1	B	182	3053	979	1522	274	273	5	0	8	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP B8HNS6
A	-4	PRO	-	expression tag	UNP B8HNS6
A	-3	GLY	-	expression tag	UNP B8HNS6
A	-2	TYR	-	expression tag	UNP B8HNS6
A	-1	GLN	-	expression tag	UNP B8HNS6
A	0	ASP	-	expression tag	UNP B8HNS6
A	1	PRO	-	expression tag	UNP B8HNS6
A	74	VAL	GLN	engineered mutation	UNP B8HNS6
B	-5	GLY	-	expression tag	UNP B8HNS6
B	-4	PRO	-	expression tag	UNP B8HNS6
B	-3	GLY	-	expression tag	UNP B8HNS6
B	-2	TYR	-	expression tag	UNP B8HNS6
B	-1	GLN	-	expression tag	UNP B8HNS6
B	0	ASP	-	expression tag	UNP B8HNS6
B	1	PRO	-	expression tag	UNP B8HNS6
B	74	VAL	GLN	engineered mutation	UNP B8HNS6

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
2	A	1	9	3	3	3	0	0
2	A	1	9	3	3	3	0	0
2	A	1	9	3	3	3	0	0
2	B	1	9	3	3	3	0	0
2	B	1	9	3	3	3	0	0
2	B	1	9	3	3	3	0	0

- Molecule 3 is PROTOPORPHYRIN IX CONTAINING FE (CCD ID: HEM) (formula:  $C_{34}H_{32}FeN_4O_4$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	Fe	H	N			O
3	A	1	73	34	1	30	4	4	0	0
3	B	1	73	34	1	30	4	4	0	0

- Molecule 4 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula:  $C_4H_{10}O_3$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	H			O
4	A	1	17	4	10	3	0	0
4	B	1	17	4	10	3	0	0


- Molecule 5 is water.

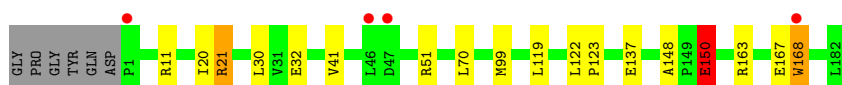
<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
5	A	220	Total 220	O 220	0	0
5	B	186	Total 186	O 186	0	0

### 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.

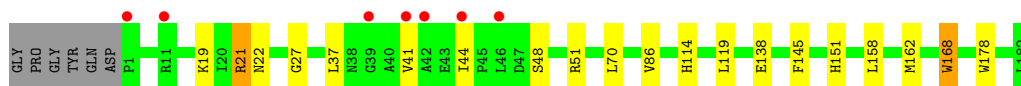
- Molecule 1: Chlorite dismutase

Chain A: 



- Molecule 1: Chlorite dismutase

Chain B: 



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	55.01Å 72.68Å 60.17Å 90.00° 112.73° 90.00°	Depositor
Resolution (Å)	36.34 – 1.51 36.34 – 1.51	Depositor EDS
% Data completeness (in resolution range)	98.3 (36.34-1.51) 98.3 (36.34-1.51)	Depositor EDS
$R_{merge}$	0.09	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.01 (at 1.51Å)	Xtrriage
Refinement program	PHENIX dev_3885	Depositor
R, $R_{free}$	0.175 , 0.193 (Not available) , 0.183	Depositor DCC
$R_{free}$ test set	2007 reflections (2.34%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	25.3	Xtrriage
Anisotropy	0.275	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.41 , 40.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	6751	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	36.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.60% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<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.

## 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: PEG, GOL, 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	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	1.06	8/1604 (0.5%)	1.23	16/2171 (0.7%)
1	B	0.75	1/1608 (0.1%)	0.79	4/2176 (0.2%)
All	All	0.92	9/3212 (0.3%)	1.04	20/4347 (0.5%)

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	A	0	2
1	B	0	1
All	All	0	3

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	168	TRP	CG-CD1	-15.44	0.98	1.36
1	A	168	TRP	CG-CD2	11.97	1.65	1.43
1	A	150	GLU	CD-OE1	7.39	1.39	1.25
1	A	150	GLU	CA-CB	7.17	1.65	1.53
1	A	150	GLU	CG-CD	7.11	1.69	1.52

The worst 5 of 20 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	168	TRP	N-CA-CB	20.98	144.40	110.42
1	A	168	TRP	CD1-CG-CD2	-16.91	79.24	106.30
1	A	168	TRP	CB-CG-CD2	-13.59	107.78	126.80
1	A	168	TRP	CA-CB-CG	13.41	139.07	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	168	TRP	CB-CA-C	-11.24	88.75	110.11

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	150	GLU	Sidechain
1	A	21	ARG	Sidechain
1	B	21	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	A	1534	1524	1484	13	0
1	B	1531	1522	1481	14	0
2	A	18	9	24	0	0
2	B	18	9	23	1	0
3	A	43	30	30	1	0
3	B	43	30	30	1	0
4	A	7	10	10	1	0
4	B	7	10	10	1	0
5	A	220	0	0	0	2
5	B	186	0	0	1	1
All	All	3607	3144	3092	28	2

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.

The worst 5 of 28 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:163:ARG:HA	1:A:168:TRP:HD1	1.53	0.73
1:A:41:VAL:O	1:A:51:ARG:NH2	2.28	0.66
1:A:70:LEU:HD23	1:A:119:LEU:CD2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:70:LEU:HD23	1:A:119:LEU:HD21	1.84	0.59
1:B:44:ILE:HG21	1:B:51:ARG:HB2	1.89	0.53

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:306:HOH:O	5:A:470:HOH:O[2_545]	2.00	0.20
5:A:482:HOH:O	5:B:446:HOH:O[1_454]	2.19	0.01

### 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	Percentiles	
1	A	190/188 (101%)	186 (98%)	4 (2%)	0	100	100
1	B	188/188 (100%)	181 (96%)	7 (4%)	0	100	100
All	All	378/376 (100%)	367 (97%)	11 (3%)	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	A	162/159 (102%)	162 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	163/159 (102%)	163 (100%)	0	100	100
All	All	325/318 (102%)	325 (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. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	35	ASN
1	B	16	GLN
1	B	22	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 oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

10 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	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
4	PEG	A	204	-	6,6,6	0.43	0	5,5,5	0.46	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	GOL	A	205	-	5,5,5	0.65	0	5,5,5	1.20	1 (20%)
2	GOL	B	201	-	5,5,5	0.49	0	5,5,5	0.92	0
3	HEM	A	202	5,1	50,50,50	1.53	9 (18%)	67,82,82	1.60	14 (20%)
4	PEG	B	204	-	6,6,6	0.56	0	5,5,5	0.33	0
2	GOL	B	203	-	5,5,5	1.36	1 (20%)	5,5,5	1.07	0
2	GOL	B	205	-	5,5,5	0.89	0	5,5,5	0.96	0
2	GOL	A	201	-	5,5,5	0.53	0	5,5,5	1.25	1 (20%)
3	HEM	B	202	5,1	50,50,50	1.74	13 (26%)	67,82,82	1.87	17 (25%)
2	GOL	A	203	-	5,5,5	0.99	0	5,5,5	1.14	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
4	PEG	A	204	-	-	1/4/4/4	-
2	GOL	A	205	-	-	2/4/4/4	-
2	GOL	B	201	-	-	0/4/4/4	-
3	HEM	A	202	5,1	-	4/14/54/54	-
4	PEG	B	204	-	-	4/4/4/4	-
2	GOL	B	203	-	-	4/4/4/4	-
2	GOL	B	205	-	-	2/4/4/4	-
2	GOL	A	201	-	-	2/4/4/4	-
3	HEM	B	202	5,1	-	4/14/54/54	-
2	GOL	A	203	-	-	2/4/4/4	-

The worst 5 of 23 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	202	HEM	FE-ND	5.17	2.10	1.94
3	A	202	HEM	FE-ND	4.21	2.07	1.94
3	B	202	HEM	FE-NC	4.00	2.08	1.95
3	A	202	HEM	FE-NB	3.68	2.06	1.94
3	B	202	HEM	FE-NA	3.02	2.05	1.95

The worst 5 of 33 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	202	HEM	C4D-ND-C1D	4.90	111.01	105.21
3	B	202	HEM	C4D-ND-C1D	4.30	110.31	105.21
3	B	202	HEM	CAA-CBA-CGA	-4.04	102.95	113.67
3	A	202	HEM	CAA-CBA-CGA	-3.93	103.23	113.67
3	A	202	HEM	C3B-C4B-NB	-3.73	106.79	109.47

There are no chirality outliers.

5 of 25 torsion outliers are listed below:

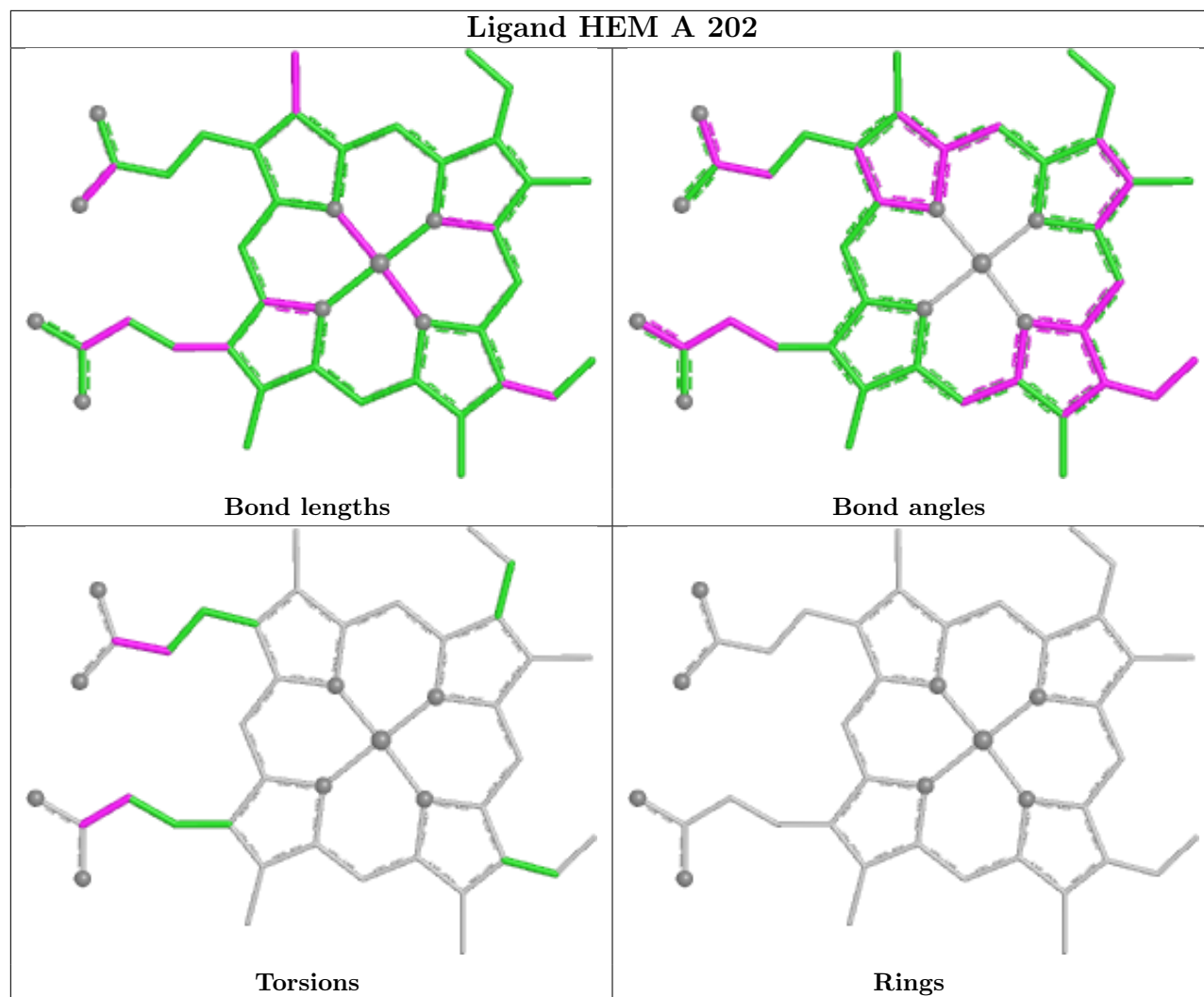
Mol	Chain	Res	Type	Atoms
2	A	203	GOL	O1-C1-C2-C3
2	B	203	GOL	O1-C1-C2-C3
2	B	203	GOL	C1-C2-C3-O3
2	B	205	GOL	O1-C1-C2-O2
2	B	205	GOL	O1-C1-C2-C3

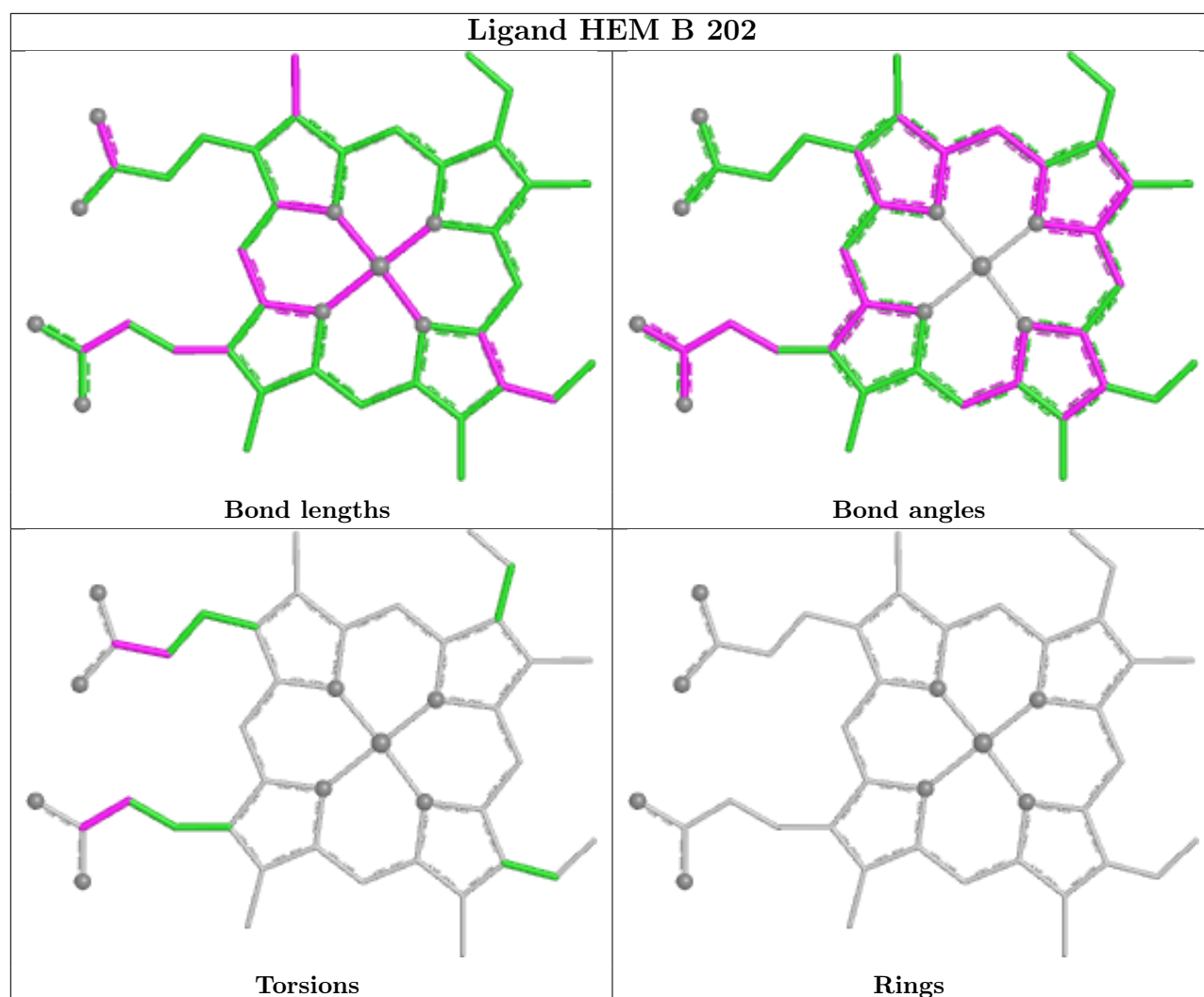
There are no ring outliers.

5 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	204	PEG	1	0
3	A	202	HEM	1	0
4	B	204	PEG	1	0
2	B	205	GOL	1	0
3	B	202	HEM	1	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 than 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<sup>th</sup> 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(Å <sup>2</sup> )	Q<0.9
1	A	182/188 (96%)	-0.13	4 (2%) 62 68	12, 30, 48, 81	5 (2%)
1	B	182/188 (96%)	0.16	7 (3%) 44 51	16, 36, 65, 101	4 (2%)
All	All	364/376 (96%)	0.02	11 (3%) 52 59	12, 34, 60, 101	9 (2%)

The worst 5 of 11 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	168	TRP	5.1
1	B	42	ALA	5.0
1	A	46	LEU	4.7
1	B	1	PRO	4.3
1	B	41	VAL	3.6

### 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](#)

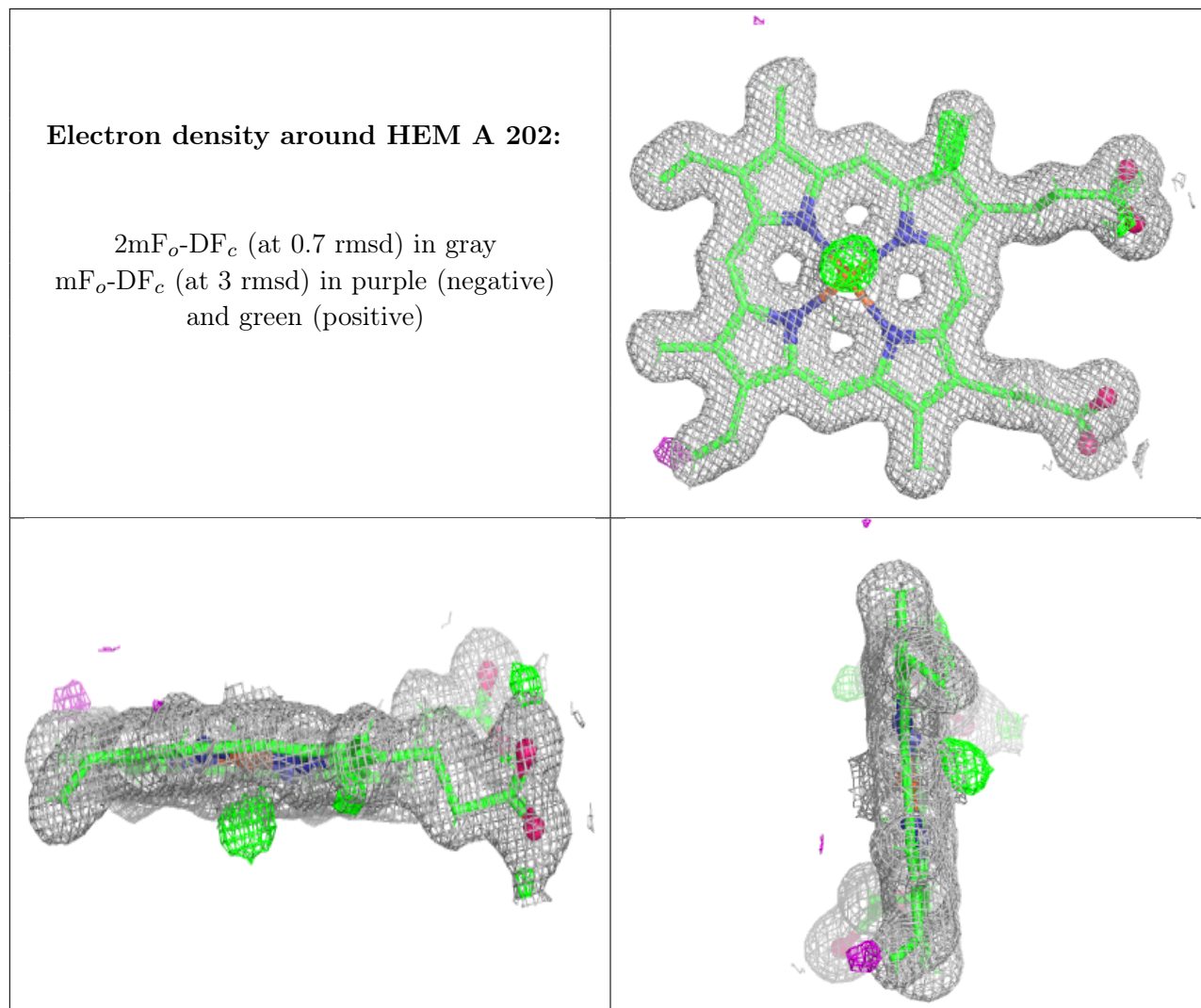
There are no oligosaccharides in this entry.

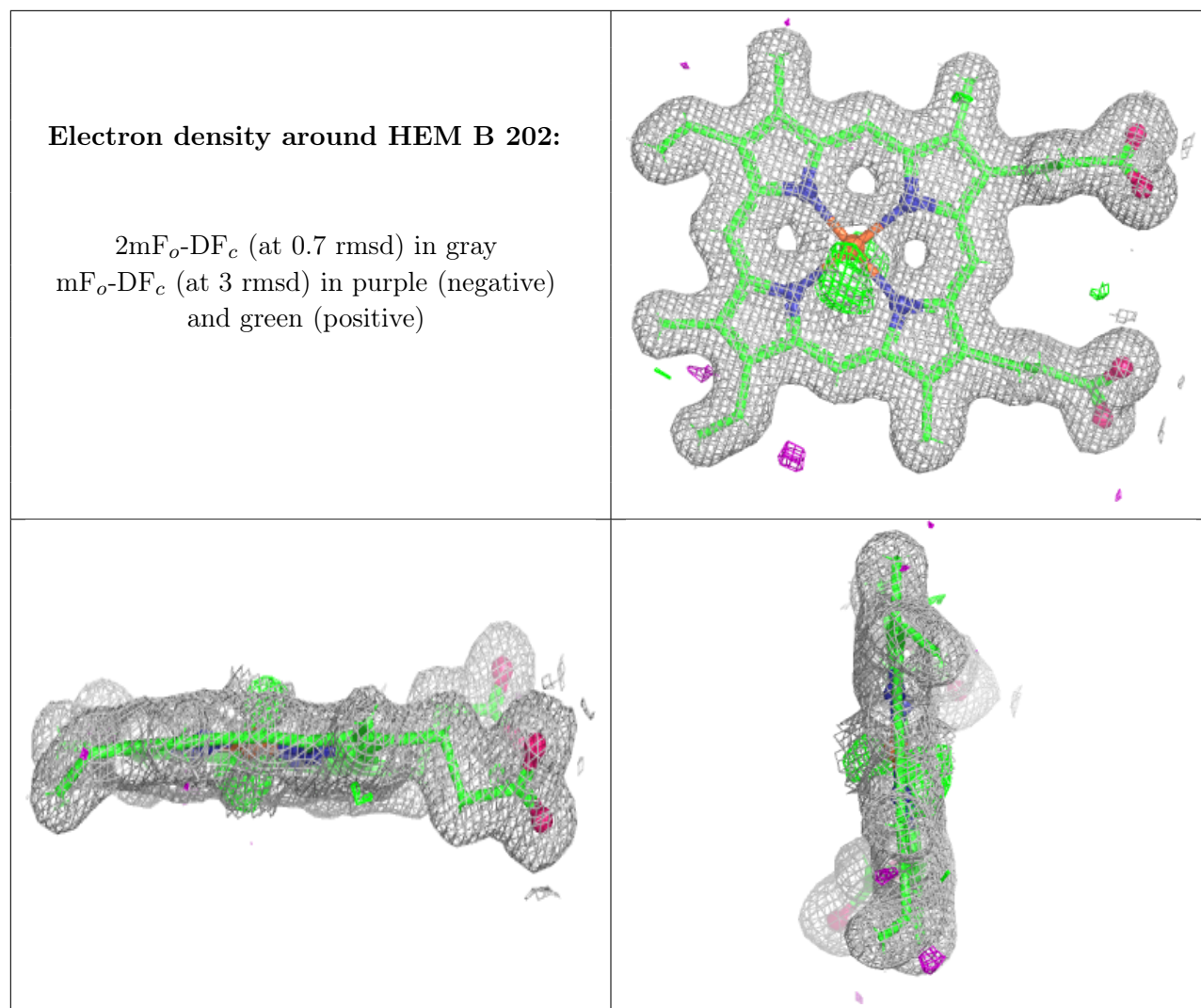
### 6.4 Ligands [i](#)

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<sup>th</sup> 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( $\text{\AA}^2$ )	Q<0.9
2	GOL	A	203	6/6	0.73	0.17	45,52,66,70	0
4	PEG	B	204	7/7	0.73	0.16	50,60,71,71	0
4	PEG	A	204	7/7	0.78	0.15	40,54,67,67	0
2	GOL	A	205	6/6	0.80	0.14	43,47,59,63	0
2	GOL	B	205	6/6	0.83	0.13	47,53,63,69	0
2	GOL	A	201	6/6	0.85	0.14	32,43,46,46	0
2	GOL	B	203	6/6	0.88	0.13	33,45,55,66	0
2	GOL	B	201	6/6	0.92	0.10	36,44,52,55	0
3	HEM	A	202	43/43	0.99	0.05	18,23,29,33	0
3	HEM	B	202	43/43	0.99	0.06	20,24,30,34	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.