

wwPDB X-ray Structure Validation Summary Report (i)

Jun 18, 2025 – 10:13 AM JST

PDB ID : 8ZXG / pdb 00008zxg

Title: Crystal structure of Paraoxonase from Bacillus sp. strain S3wahi

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Deposited on : 2024-06-14

Resolution : 1.49 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 (1)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0rc1

Mogul: 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 2.0rc1

EDS : 3.0

Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)

CCP4 : 9.0.006 (Gargrove)

Density-Fitness : 1.0.12

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

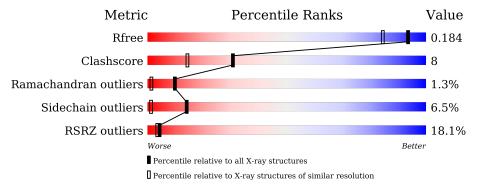
Validation Pipeline (wwPDB-VP) : 2.44

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 1.49 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	164625	3717 (1.50-1.50)
Clashscore	180529	4048 (1.50-1.50)
Ramachandran outliers	177936	3970 (1.50-1.50)
Sidechain outliers	177891	3967 (1.50-1.50)
RSRZ outliers	164620	3718 (1.50-1.50)

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 >=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		
			18%		
1	A	316	80%	12%	• • •

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
2	GOL	A	401	-	-	X	-
3	MG	A	449	-	-	-	X



2 Entry composition (i)

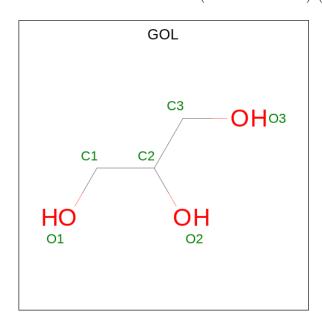
There are 5 unique types of molecules in this entry. The entry contains 2622 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Paraoxonase from Bacillus sp. strain S3wahi.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	309	Total 2429	C 1564	N 408	O 446	S 11	0	11	0

• Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	
2	А	1	Total C O	0	0	
	71	1	6 3 3	O		
2	Δ	1	Total C O	0	1	
	Λ	1	12 6 6	U	1	
2	٨	1	Total C O	0	0	
2	A	1	6 3 3	0	0	
2	Λ	1	Total C O	0	0	
	A	1	6 3 3	U	0	
2	Λ	1	Total C O	0	1	
2	A	1	12 6 6	U	1	



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 6 3 3	0	0
2	A	1	Total C O 6 3 3	0	0

 \bullet Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	58	Total Mg 58 58	0	0

• Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	2	Total Zn 2 2	0	0

• Molecule 5 is water.

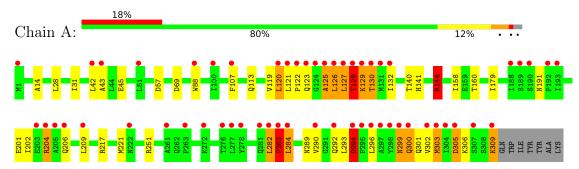
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	79	Total O 79 79	0	0



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: Paraoxonase from Bacillus sp. strain S3wahi





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants	77.82Å 77.82Å 135.27Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.01 - 1.49	Depositor
resolution (A)	39.01 - 1.49	EDS
% Data completeness	99.9 (39.01-1.49)	Depositor
(in resolution range)	99.9 (39.01-1.49)	EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.52 (at 1.50Å)	Xtriage
Refinement program	REFMAC 5.8.0425	Depositor
P.P.	0.183 , 0.195	Depositor
R, R_{free}	0.185 , 0.184	DCC
R_{free} test set	3501 reflections (5.15%)	wwPDB-VP
Wilson B-factor (Å ²)	26.1	Xtriage
Anisotropy	0.205	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36, 49.1	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	0.96	EDS
Total number of atoms	2622	wwPDB-VP
Average B, all atoms $(Å^2)$	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.98% 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: ZN, MG, GOL

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	Boı	nd lengths	Во	ond angles
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.81	$2/2515 \ (0.1\%)$	1.20	10/3422 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	$Ideal(\AA)$
1	A	283	PRO	C-O	8.11	1.34	1.24
1	A	127	LEU	C-N	6.16	1.42	1.33

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\mathrm{Ideal}(^{o})$
1	A	283	PRO	N-CA-CB	-11.54	91.14	103.25
1	A	202	ILE	N-CA-C	-8.01	103.09	111.58
1	A	294	ASP	CA-CB-CG	7.01	119.61	112.60
1	A	128	THR	CA-CB-OG1	6.25	118.97	109.60
1	A	283	PRO	O-C-N	6.10	130.88	122.64

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	125	ALA	Peptide



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Mol	Chain	Res	Type	Group
1	A	144[A]	ARG	Sidechain
1	A	144[B]	ARG	Sidechain
1	A	204	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	2429	0	2412	40	41
2	A	54	0	70	5	0
3	A	58	0	0	0	0
4	A	2	0	0	0	0
5	A	79	0	0	3	3
All	All	2622	0	2482	41	42

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 8.

The worst 5 of 41 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:A:144[A]:ARG:HH11	1:A:144[A]:ARG:HG2	0.92	1.08
1:A:144[A]:ARG:HG2	1:A:144[A]:ARG:NH1	1.68	1.01
1:A:144[A]:ARG:HH11	1:A:144[A]:ARG:CG	1.85	0.80
1:A:122:PRO:HA	1:A:126:LEU:HD23	1.64	0.80
1:A:119:VAL:HG23	1:A:120:LEU:HD13	1.70	0.74

The worst 5 of 42 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	$egin{aligned} & ext{Interatomic} \ & ext{distance} \ & ext{(Å)} \end{aligned}$	Clash overlap (Å)
1:A:42:LEU:C	1:A:127:LEU:CA[7_555]	0.66	1.54
1:A:43:ALA:CA	1:A:127:LEU:CG[7_555]	0.74	1.46
1:A:42:LEU:O	1:A:127:LEU:N[7_555]	0.75	1.45
1:A:42:LEU:CB	1:A:128:THR:N[7_555]	0.94	1.26



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Atom-1 Atom-2		$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	Clash overlap (Å)
1:A:42:LEU:CB	1:A:127:LEU:C[7_555]	1.06	1.14

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	318/316 (101%)	298 (94%)	16 (5%)	4 (1%)	10 1

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	283	PRO
1	A	303	MET
1	A	305	ASP
1	A	294	ASP

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.

M	ol	Chain	Analysed	Rotameric	Outliers	Percentiles
1		A	258/280 (92%)	239 (93%)	19 (7%)	11 1

5 of 19 residues with a non-rotameric sidechain are listed below:

\mathbf{Mol}	Chain	Res	Type
1	A	299	ASN



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Mol	Chain	Res	Type
1	A	309[A]	LYS
1	A	309[B]	LYS
1	A	306	LYS
1	A	130	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 6 such sidechains are listed below:

Mol	Chain	Res	Type
1	A	222	ASN
1	A	257	ASN
1	A	292	GLN
1	A	141	HIS
1	A	47	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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 69 ligands modelled in this entry, 60 are monoatomic - leaving 9 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	Tuno	Chain	Pog	Res Link		Bond lengths				Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2		
2	GOL	A	402[A]	-	5,5,5	0.15	0	5,5,5	0.37	0		
2	GOL	A	405[B]	-	5,5,5	0.28	0	5,5,5	0.53	0		
2	GOL	A	405[A]	-	5,5,5	0.17	0	5,5,5	0.42	0		
2	GOL	A	403	-	5,5,5	0.46	0	5,5,5	1.00	0		
2	GOL	A	406	-	5,5,5	0.16	0	5,5,5	0.39	0		
2	GOL	A	407	-	5,5,5	0.18	0	5,5,5	0.31	0		
2	GOL	A	402[B]	-	5,5,5	0.24	0	5,5,5	0.40	0		
2	GOL	A	404	-	5,5,5	0.34	0	5,5,5	0.33	0		
2	GOL	A	401	-	5,5,5	0.88	0	5,5,5	0.31	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
2	GOL	A	402[A]	-	-	2/4/4/4	-
2	GOL	A	405[B]	-	-	2/4/4/4	-
2	GOL	A	405[A]	-	-	3/4/4/4	-
2	GOL	A	403	-	-	4/4/4/4	-
2	GOL	A	406	-	-	2/4/4/4	-
2	GOL	A	407	-	-	2/4/4/4	-
2	GOL	A	402[B]	-	-	2/4/4/4	-
2	GOL	A	404	-	-	4/4/4/4	-
2	GOL	A	401	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 23 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	GOL	O1-C1-C2-C3
2	A	403	GOL	O1-C1-C2-C3
2	A	403	GOL	C1-C2-C3-O3
2	A	404	GOL	O1-C1-C2-C3
2	A	404	GOL	C1-C2-C3-O3

There are no ring outliers.



2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	403	GOL	1	0
2	A	401	GOL	4	0

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>	# RSRZ > 2	$OWAB(Å^2)$	Q < 0.9
1	A	309/316 (97%)	1.04	56 (18%) 4 3	12, 33, 71, 144	11 (3%)

The worst 5 of 56 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	126	LEU	15.8
1	A	128	THR	14.4
1	A	125	ALA	9.8
1	A	284	LEU	9.5
1	A	130	THR	8.8

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 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^{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	$ m B ext{-}factors(\AA^2)$	Q<0.9
3	MG	A	449	1/1	0.33	0.41	119,119,119,119	0
2	GOL	A	405[B]	6/6	0.56	0.20	35,42,50,50	6



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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$ m B ext{-}factors(\AA^2)$	Q < 0.9
2	GOL	A	405[A]	6/6	0.56	0.20	38,43,50,51	6
3	MG	A	441	1/1	0.66	0.25	101,101,101,101	0
3	MG	A	464	1/1	0.69	0.22	83,83,83,83	0
2	GOL	A	406	6/6	0.74	0.16	58,61,65,68	0
2	GOL	A	401	6/6	0.74	0.33	98,110,117,121	0
2	GOL	A	407	6/6	0.76	0.21	54,60,67,76	0
3	MG	A	465	1/1	0.77	0.20	82,82,82,82	0
2	GOL	A	404	6/6	0.79	0.20	35,48,58,58	0
3	MG	A	435	1/1	0.82	0.18	59,59,59,59	0
3	MG	A	455	1/1	0.82	0.32	84,84,84,84	0
2	GOL	A	403	6/6	0.83	0.16	41,46,51,61	0
3	MG	A	463	1/1	0.84	0.19	62,62,62,62	0
3	MG	A	461	1/1	0.85	0.20	62,62,62,62	0
3	MG	A	462	1/1	0.87	0.16	72,72,72,72	0
3	MG	A	460	1/1	0.87	0.16	55,55,55,55	0
3	MG	A	453	1/1	0.89	0.14	54,54,54,54	0
3	MG	A	444	1/1	0.90	0.14	57,57,57	0
3	MG	A	427	1/1	0.90	0.15	61,61,61,61	0
2	GOL	A	402[B]	6/6	0.91	0.13	20,34,40,51	6
2	GOL	A	402[A]	6/6	0.91	0.13	21,35,46,48	6
3	MG	A	446	1/1	0.92	0.18	49,49,49,49	0
3	MG	A	429	1/1	0.92	0.17	54,54,54,54	0
3	MG	A	438	1/1	0.93	0.15	52,52,52,52	0
3	MG	A	450	1/1	0.94	0.21	54,54,54,54	0
3	MG	A	413	1/1	0.94	0.18	41,41,41,41	0
3	MG	A	411	1/1	0.94	0.11	48,48,48,48	0
3	MG	A	457	1/1	0.94	0.28	70,70,70,70	0
3	MG	A	442	1/1	0.94	0.11	54,54,54,54	0
3	MG	A	418	1/1	0.95	0.32	64,64,64,64	0
3	MG	A	458	1/1	0.95	0.09	59,59,59,59	0
3	MG	A	434	1/1	0.95	0.28	44,44,44,44	0
3	MG	A	452	1/1	0.95	0.12	49,49,49,49	0
3	MG	A	408	1/1	0.95	0.29	43,43,43,43	0
3	MG	A	454	1/1	0.95	0.09	66,66,66,66	0
3	MG	A	428	1/1	0.95	0.27	47,47,47,47	0
3	MG	A	456	1/1	0.95	0.11	50,50,50,50	0
3	MG	A	420	1/1	0.96	0.15	48,48,48,48	0
3	MG	A	423	1/1	0.96	0.11	44,44,44,44	0
3	MG	A	440	1/1	0.96	0.09	44,44,44,44	0
3	MG	A	424	1/1	0.96	0.11	44,44,44,44	0
3	MG	A	451	1/1	0.96	0.33	55,55,55,55	0
3	MG	A	425	1/1	0.96	0.12	44,44,44,44	0



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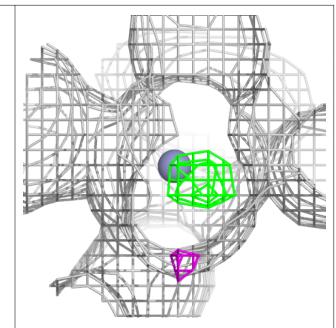
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q<0.9
3	MG	A	443	1/1	0.97	0.13	49,49,49,49	0
3	MG	A	433	1/1	0.97	0.28	44,44,44,44	0
3	MG	A	421	1/1	0.97	0.15	40,40,40,40	0
3	MG	A	448	1/1	0.97	0.10	57,57,57,57	0
3	MG	A	459	1/1	0.97	0.08	53,53,53,53	0
3	MG	A	426	1/1	0.97	0.12	57,57,57,57	0
3	MG	A	436	1/1	0.97	0.16	44,44,44,44	0
3	MG	A	422	1/1	0.97	0.10	43,43,43,43	0
3	MG	A	410	1/1	0.97	0.27	42,42,42,42	0
3	MG	A	416	1/1	0.97	0.32	40,40,40,40	0
3	MG	A	430	1/1	0.97	0.10	34,34,34,34	0
3	MG	A	409	1/1	0.98	0.14	44,44,44,44	0
3	MG	A	445	1/1	0.98	0.11	44,44,44,44	0
3	MG	A	439	1/1	0.98	0.08	54,54,54,54	0
3	MG	A	414	1/1	0.98	0.23	48,48,48,48	0
3	MG	A	412	1/1	0.98	0.18	36,36,36,36	0
3	MG	A	431	1/1	0.98	0.07	37,37,37,37	0
3	MG	A	437	1/1	0.98	0.10	52,52,52,52	0
3	MG	A	415	1/1	0.99	0.03	29,29,29,29	0
3	MG	A	447	1/1	0.99	0.06	40,40,40,40	0
3	MG	A	419	1/1	0.99	0.04	44,44,44,44	0
3	MG	A	432	1/1	0.99	0.05	32,32,32,32	0
3	MG	A	417	1/1	0.99	0.11	42,42,42,42	0
4	ZN	A	466	1/1	1.00	0.01	24,24,24,24	0
4	ZN	A	467	1/1	1.00	0.01	23,23,23,23	0

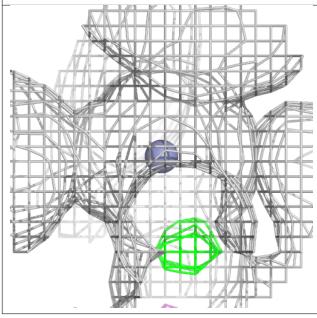
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

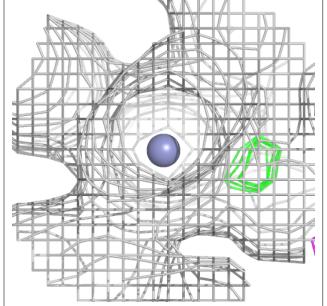


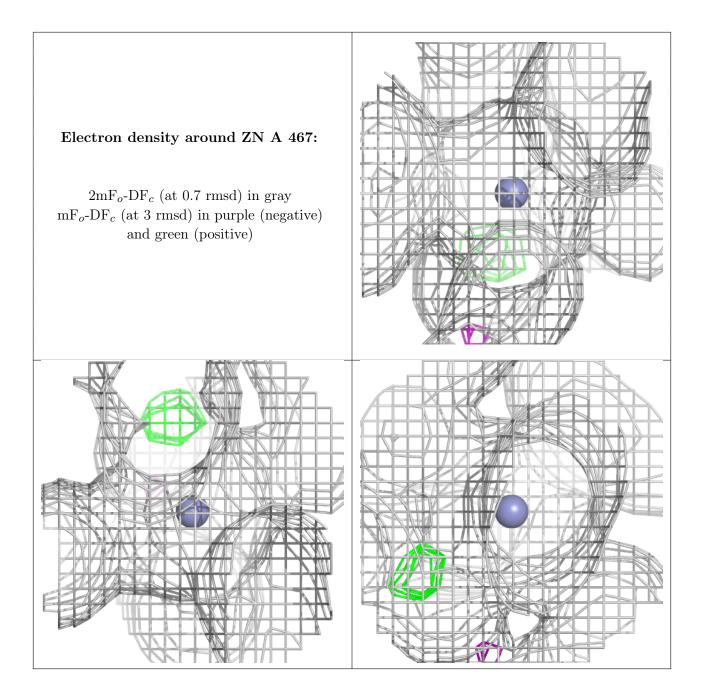
Electron density around ZN A 466:

 $2 {
m mF}_o {
m -DF}_c$ (at 0.7 rmsd) in gray ${
m mF}_o {
m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)









6.5 Other polymers (i)

There are no such residues in this entry.

