

Full wwPDB X-ray Structure Validation Report (i)

Apr 19, 2023 – 01:20 pm BST

PDB ID : 7OZ6

Title : Crystal structure of Rhizobium etli inducible L-asparaginase ReAV (mono-

clinic form MC)

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Deposited on : 2021-06-25

Resolution : 1.76 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 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 : 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.32.2

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

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

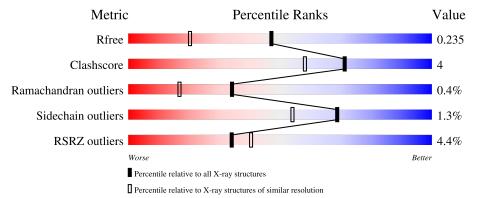
Validation Pipeline (wwPDB-VP) : 2.32.2

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 1.76 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\AA)}) \end{array}$
R_{free}	130704	2340 (1.76-1.76)
Clashscore	141614	2466 (1.76-1.76)
Ramachandran outliers	138981	2437 (1.76-1.76)
Sidechain outliers	138945	2437 (1.76-1.76)
RSRZ outliers	127900	2298 (1.76-1.76)

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	AAA	373	87%	9% • •			
1	BBB	373	90%	7% • •			



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 5749 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 L-asparaginase.

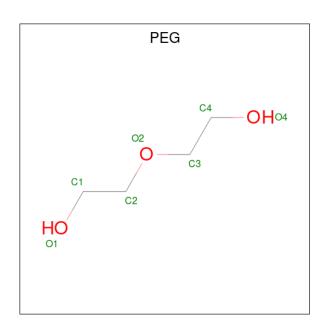
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	AAA	361	Total 2693	C 1660	N 498	O 515	S 20	0	3	0
1	BBB	362	Total 2707	C 1668	N 499	O 519	S 21	0	5	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AAA	-5	GLY	-	expression tag	UNP Q2K0Z2
AAA	-4	ILE	-	expression tag	UNP Q2K0Z2
AAA	-3	ASP	-	expression tag	UNP Q2K0Z2
AAA	-2	PRO	-	expression tag	UNP Q2K0Z2
AAA	-1	PHE	-	expression tag	UNP Q2K0Z2
AAA	0	THR	-	expression tag	UNP Q2K0Z2
BBB	-5	GLY	-	expression tag	UNP Q2K0Z2
BBB	-4	ILE	-	expression tag	UNP Q2K0Z2
BBB	-3	ASP	-	expression tag	UNP Q2K0Z2
BBB	-2	PRO	-	expression tag	UNP Q2K0Z2
BBB	-1	PHE	-	expression tag	UNP Q2K0Z2
BBB	0	THR	-	expression tag	UNP Q2K0Z2

• Molecule 2 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	AAA	1	Total C O 7 4 3	0	0
2	BBB	1	Total C O 7 4 3	0	0

• Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

\mathbf{Mol}	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
3	AAA	1	Total Zn 1 1	0	0
3	BBB	1	Total Zn 1 1	0	0

• Molecule 4 is water.

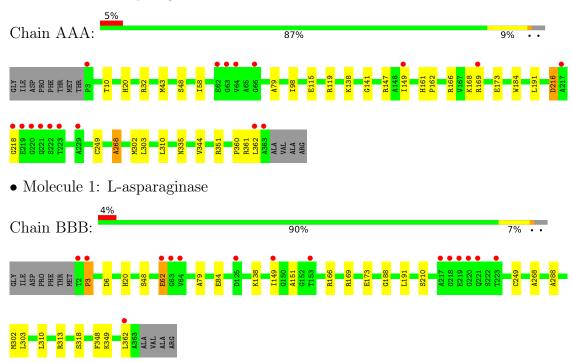
\mathbf{N}	/Iol	Chain	Residues	Atoms	ZeroOcc	AltConf
	4	AAA	152	Total O 152 152	0	0
	4	BBB	181	Total O 181 181	0	0



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: L-asparaginase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	130.29Å 87.28Å 93.92Å	Depositor
a, b, c, α , β , γ	90.00° 130.15° 90.00°	Depositor
Resolution (Å)	46.73 - 1.76	Depositor
resolution (A)	46.73 - 1.76	EDS
% Data completeness	98.7 (46.73-1.76)	Depositor
(in resolution range)	98.7 (46.73-1.76)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.04	Depositor
$< I/\sigma(I) > 1$	1.73 (at 1.76Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R R.	0.183 , 0.227	Depositor
R, R_{free}	0.192 , 0.235	DCC
R_{free} test set	1000 reflections (1.27%)	wwPDB-VP
Wilson B-factor (Å ²)	28.1	Xtriage
Anisotropy	0.278	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35, 42.0	EDS
L-test for twinning ²	$ < L >=0.51, < L^2>=0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5749	wwPDB-VP
Average B, all atoms $(Å^2)$	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 78.77 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 6.4449e-07. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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, CSO, PEG

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).

Mal Chain		Bo	nd lengths	Bond angles	
Mol	Chain	RMSZ	# Z > 5	RMSZ	# Z >5
1	AAA	0.87	0/2740	0.86	0/3700
1	BBB	0.93	$2/2753 \ (0.1\%)$	0.89	0/3719
All	All	0.90	$2/5493 \ (0.0\%)$	0.87	0/7419

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AAA	0	1
1	BBB	0	1
All	All	0	2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
1	BBB	318	SER	CA-CB	-5.84	1.44	1.52
1	BBB	84	GLU	CD-OE1	-5.17	1.20	1.25

There are no bond angle outliers.

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AAA	79	ALA	Peptide
1	BBB	79	ALA	Peptide



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	AAA	2693	0	2665	22	0
1	BBB	2707	0	2681	17	0
2	AAA	7	0	10	0	0
2	BBB	7	0	10	0	0
3	AAA	1	0	0	0	0
3	BBB	1	0	0	0	0
4	AAA	152	0	0	5	0
4	BBB	181	0	0	4	0
All	All	5749	0	5366	38	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 (38) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:BBB:249[B]:CSO:OD	4:BBB:501:HOH:O	1.97	0.79
1:AAA:360:PRO:C	1:AAA:362:LEU:H	1.95	0.70
1:AAA:149:ILE:HD11	1:AAA:166:ARG:HD2	1.76	0.68
1:BBB:362:LEU:O	4:BBB:502:HOH:O	2.16	0.59
1:AAA:138:LYS:HE3	1:AAA:191:LEU:HD12	1.84	0.58
1:AAA:115:GLU:O	1:AAA:119:ARG:HG3	2.04	0.57
1:AAA:43:MET:HE1	4:AAA:604:HOH:O	2.05	0.57
1:BBB:149:ILE:HD11	1:BBB:166:ARG:HD2	1.87	0.55
1:AAA:351:ARG:HG3	4:AAA:620:HOH:O	2.07	0.55
1:AAA:58:ILE:HD13	1:AAA:141:GLY:HA3	1.90	0.54
1:AAA:360:PRO:C	1:AAA:362:LEU:N	2.65	0.49
1:BBB:268:ALA:HA	1:BBB:303:LEU:HD22	1.93	0.49
1:AAA:10:THR:HB	4:AAA:623:HOH:O	2.13	0.49
1:BBB:138:LYS:HE3	1:BBB:191:LEU:HD12	1.94	0.49
1:AAA:10:THR:HG22	1:AAA:344:VAL:HG22	1.96	0.48
1:BBB:313:ARG:NH1	4:BBB:502:HOH:O	2.45	0.48
1:AAA:168:LYS:HA	1:AAA:184:TRP:CZ2	2.49	0.48
1:AAA:20:HIS:CD2	1:AAA:302:MET:HG3	2.49	0.47
1:AAA:98:ILE:O	1:AAA:147:ARG:NH1	2.45	0.47

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Atom-1	Atom-2	$egin{aligned} & ext{Interatomic} \ & ext{distance} \ & ext{(Å)} \end{aligned}$	Clash overlap (Å)
1:BBB:48:SER:OG	4:BBB:503:HOH:O	2.20	0.47
1:BBB:20:HIS:CD2	1:BBB:302:MET:HG3	2.51	0.46
1:AAA:169:ARG:O	1:AAA:173:GLU:HG3	2.15	0.46
1:BBB:169:ARG:HG2	1:BBB:173:GLU:OE2	2.16	0.46
1:AAA:360:PRO:O	1:AAA:362:LEU:N	2.47	0.45
1:AAA:216:ASP:C	1:AAA:218:GLY:H	2.19	0.45
1:AAA:48:SER:OG	4:AAA:502:HOH:O	2.20	0.44
1:BBB:210[B]:SER:OG	1:BBB:288:ALA:HB3	2.18	0.43
1:AAA:335:ASN:HB2	1:BBB:188:GLY:HA2	1.99	0.43
1:AAA:149:ILE:HD11	1:AAA:166:ARG:CD	2.47	0.42
1:AAA:268:ALA:HA	1:AAA:303:LEU:HD22	2.01	0.42
1:BBB:149:ILE:HG22	1:BBB:151:ALA:N	2.35	0.42
1:AAA:161:HIS:HA	1:AAA:162:PRO:HD3	1.93	0.42
1:BBB:149:ILE:HG22	1:BBB:151:ALA:H	1.83	0.42
1:AAA:249:CSO:OD	4:AAA:501:HOH:O	2.17	0.41
1:BBB:62:GLU:O	1:BBB:62:GLU:HG3	2.20	0.41
1:BBB:6:ASP:HB3	1:BBB:348:PHE:HB2	2.02	0.40
1:BBB:149:ILE:HG21	1:BBB:151:ALA:HB2	2.03	0.40

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	Percentiles
1	AAA	361/373 (97%)	349 (97%)	10 (3%)	2 (1%)	25 10
1	BBB	363/373 (97%)	353 (97%)	9 (2%)	1 (0%)	41 22
All	All	724/746 (97%)	702 (97%)	19 (3%)	3 (0%)	34 17

All (3) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
1	AAA	361	ARG
1	AAA	268	ALA
1	BBB	3	PRO

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	AAA	$276/282 \ (98\%)$	273 (99%)	3 (1%)	73 60		
1	BBB	278/282 (99%)	274 (99%)	4 (1%)	67 52		
All	All	554/564 (98%)	547 (99%)	7 (1%)	69 54		

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AAA	32	ARG
1	AAA	216	ASP
1	AAA	310	LEU
1	BBB	3	PRO
1	BBB	62	GLU
1	BBB	310	LEU
1	BBB	349	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

3 non-standard protein/DNA/RNA residues 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 C		Chain Res		Link	Bond lengths				Bond angles		
MIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
1	CSO	BBB	249[B]	-	3,6,7	0.82	0	0,6,8	-	-	
1	CSO	AAA	249	1	3,6,7	1.09	0	0,6,8	-	-	
1	CSO	BBB	249[A]	-	3,6,7	0.92	0	0,6,8	-	-	

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
1	CSO	BBB	249[B]	-	-	0/1/5/7	-
1	CSO	AAA	249	1	-	0/1/5/7	-
1	CSO	BBB	249[A]	-	-	0/1/5/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	BBB	249[B]	CSO	2	0
1	AAA	249	CSO	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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 Type		Chain	Res	Link	Bond lengths			Bond angles		
IVIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	PEG	AAA	401	-	6,6,6	0.29	0	5,5,5	0.19	0
2	PEG	BBB	401	-	6,6,6	0.14	0	5,5,5	0.10	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	PEG	AAA	401	-	-	0/4/4/4	-
2	PEG	BBB	401	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	BBB	401	PEG	O1-C1-C2-O2
2	BBB	401	PEG	O2-C3-C4-O4

There are no ring outliers.

No monomer is involved in short contacts.

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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	AAA	360/373~(96%)	0.28	17 (4%) 31 37	21, 35, 58, 75	0
1	BBB	361/373~(96%)	0.16	15 (4%) 36 42	21, 31, 54, 77	0
All	All	721/746 (96%)	0.22	32 (4%) 34 40	21, 33, 57, 77	0

All (32) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BBB	218	GLY	6.1
1	BBB	2	THR	5.6
1	AAA	218	GLY	5.3
1	AAA	220	GLY	5.3
1	BBB	3	PRO	5.1
1	BBB	220	GLY	5.0
1	BBB	362	LEU	4.4
1	AAA	221	GLN	4.0
1	BBB	64	VAL	3.6
1	AAA	149	ILE	3.3
1	BBB	221	GLN	3.3
1	AAA	217	ALA	3.1
1	AAA	222	SER	3.1
1	BBB	62	GLU	3.0
1	AAA	363	ALA	2.9
1	BBB	63	GLY	2.9
1	BBB	219	GLU	2.9
1	BBB	223	THR	2.8
1	AAA	219	GLU	2.8
1	AAA	66	GLY	2.7
1	AAA	63	GLY	2.7
1	AAA	362	LEU	2.7
1	BBB	217	ALA	2.5
1	AAA	64	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	BBB	153	THR	2.4
1	AAA	223	THR	2.4
1	BBB	149	ILE	2.3
1	AAA	62	GLU	2.2
1	AAA	3	PRO	2.2
1	AAA	229	ALA	2.1
1	AAA	169	ARG	2.1
1	BBB	125	ASP	2.1

6.2 Non-standard residues in protein, DNA, RNA chains (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
1	CSO	BBB	249[A]	7/8	0.94	0.12	23,24,28,29	4
1	CSO	BBB	249[B]	7/8	0.94	0.12	23,24,28,30	4
1	CSO	AAA	249	7/8	0.95	0.11	24,26,31,46	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

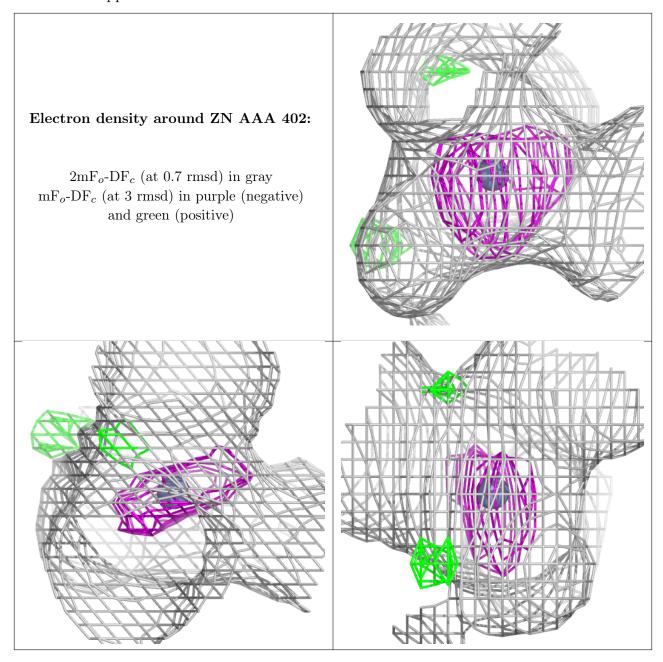
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
2	PEG	AAA	401	7/7	0.78	0.13	48,50,55,60	0
2	PEG	BBB	401	7/7	0.86	0.14	46,52,58,58	0
3	ZN	AAA	402	1/1	0.99	0.07	34,34,34,34	0
3	ZN	BBB	402	1/1	0.99	0.06	30,30,30,30	0

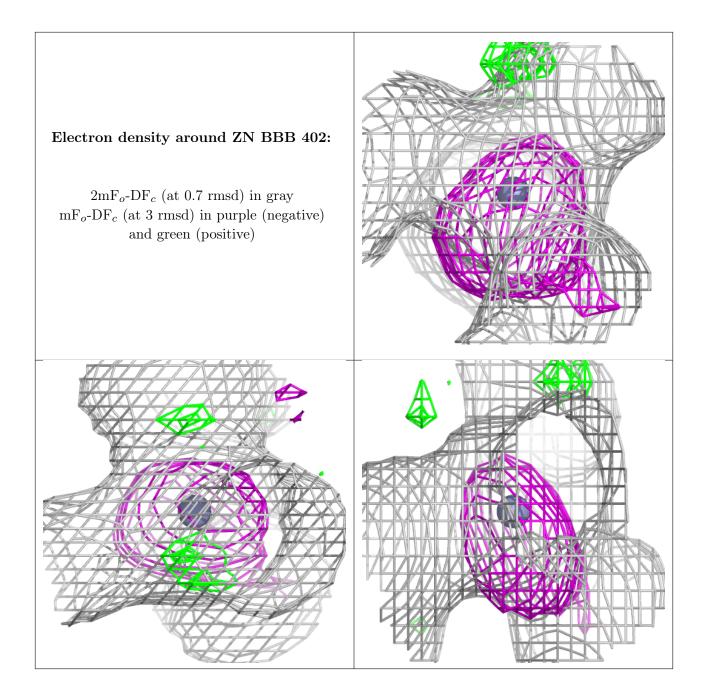
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different



orientation to approximate a three-dimensional view.







6.5 Other polymers (i)

There are no such residues in this entry.

