

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

#### Aug 26, 2024 – 12:36 PM JST

PDB ID	:	8JC1
Title	:	Crystal structure of Pectocin M1 from Pectobacterium carotovorum
Authors	:	Jantarit, N.; Kurisu, G.; Tanaka, H.
Deposited on		
Resolution	:	2.04 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:

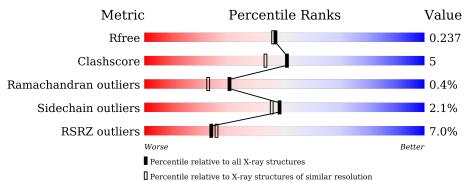
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	3.0
buster-report	:	1.1.7(2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.002 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.38.2

# 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 2.04 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 <sub>free</sub>	164625	2096 (2.04-2.04)
Clashscore	180529	2229 (2.04-2.04)
Ramachandran outliers	177936	2217 (2.04-2.04)
Sidechain outliers	177891	2217 (2.04-2.04)
RSRZ outliers	164620	2096 (2.04-2.04)

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	268	81%	18%
1	В	268	9%	11% •
1	С	268	4% 85%	15%
1	D	268	4% 89%	10%



# 2 Entry composition (i)

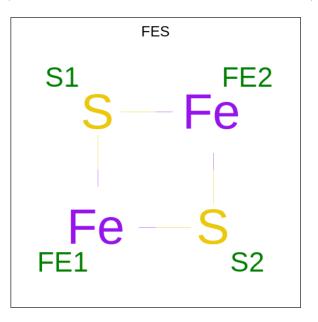
There are 9 unique types of molecules in this entry. The entry contains 8765 atoms, of which 0 are hydrogens and 0 are deuteriums.

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.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Δ	267	Total	С	Ν	0	S	0	0	0
	A	207	2037	1285	334	409	9	0	0	0
1	В	267	Total	С	Ν	0	S	0	0	0
	I D	207	2042	1287	336	410	9	0	0	U
1	С	267	Total	С	Ν	0	S	0	0	0
	U		2044	1288	335	412	9	0	0	0
1	Л	267	Total	С	Ν	0	S	0	0	0
		201	2035	1284	333	409	9	0	0	0

• Molecule 1 is a protein called pectocin M1.

• Molecule 2 is FE2/S2 (INORGANIC) CLUSTER (three-letter code: FES) (formula: Fe<sub>2</sub>S<sub>2</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	TotalFeS422	0	0
2	В	1	TotalFeS422	0	0



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Mo	Chain	Residues	Atoms	ZeroOcc	AltConf
2	С	1	TotalFeS422	0	0
2	D	1	TotalFeS422	0	0

• Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	4	Total Na 4 4	0	0
3	В	2	Total Na 2 2	0	0
3	С	1	Total Na 1 1	0	0
3	D	1	Total Na 1 1	0	0

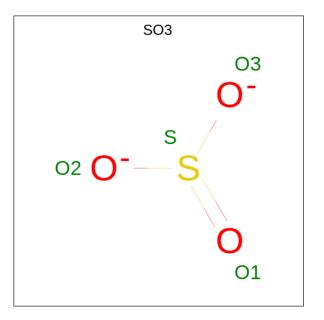
• Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total Mg 1 1	0	0
4	В	1	Total Mg 1 1	0	0
4	С	1	Total Mg 1 1	0	0
4	D	1	Total Mg 1 1	0	0

• Molecule 5 is SULFITE ION (three-letter code: SO3) (formula:  $O_3S$ ).

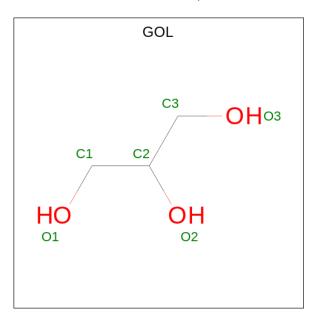


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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 4 & 3 & 1 \end{array}$	0	0
5	С	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 4 & 3 & 1 \end{array}$	0	0

• Molecule 6 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



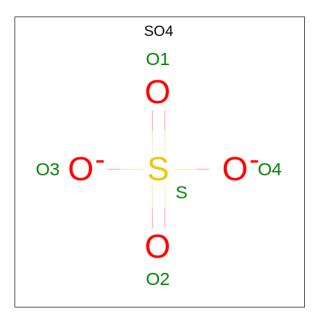
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
6	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0



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Mol	Chain	Residues	sidues Atoms		AltConf
6	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
6	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0

• Molecule 7 is SULFATE ION (three-letter code: SO4) (formula:  $O_4S$ ).



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

• Molecule 8 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	С	1	Total Cl 1 1	0	0
8	D	1	Total Cl 1 1	0	0

• Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	А	135	Total O 135 135	0	0
9	В	116	Total O 116 116	0	0



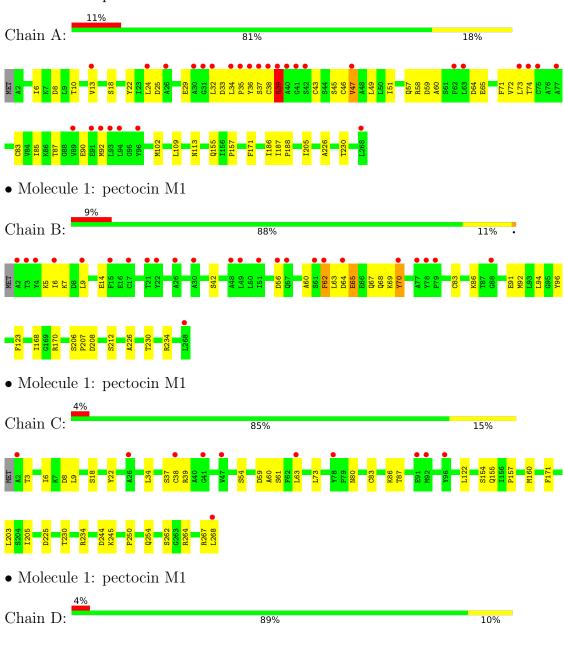
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	С	137	Total O 137 137	0	0
9	D	152	Total         O           152         152	0	0



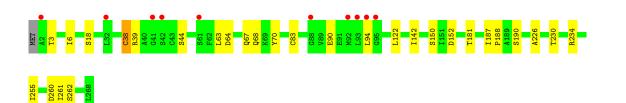
## 3 Residue-property plots (i)

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: pectocin M1







## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	66.28Å $138.55$ Å $68.95$ Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $94.18^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	49.49 - 2.04	Depositor
Resolution (A)	49.49 - 2.04	EDS
% Data completeness	98.6 (49.49-2.04)	Depositor
(in resolution range)	$98.6\ (49.49-2.04)$	EDS
R <sub>merge</sub>	0.08	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.68 (at 2.05 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
P. P.	0.195 , $0.238$	Depositor
$R, R_{free}$	0.193 , $0.237$	DCC
$R_{free}$ test set	76462 reflections $(2.55%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	38.9	Xtriage
Anisotropy	0.245	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.39 , $49.7$	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.025 for l,-k,h	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	8765	wwPDB-VP
Average B, all atoms $(Å^2)$	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.45% 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: NA, SO3, GOL, FES, CL, MG, SO4

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	
	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	А	0.38	0/2078	0.59	0/2823
1	В	0.39	0/2083	0.60	0/2830
1	С	0.40	0/2085	0.59	0/2832
1	D	0.39	0/2076	0.61	0/2821
All	All	0.39	0/8322	0.60	0/11306

There are no bond length outliers.

There are no bond angle outliers.

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	А	2037	0	1939	29	0
1	В	2042	0	1949	19	1
1	С	2044	0	1949	22	0
1	D	2035	0	1938	19	0
2	А	4	0	0	0	0
2	В	4	0	0	0	0
2	С	4	0	0	0	0
2	D	4	0	0	0	0
3	А	4	0	0	0	0



	-	<i>i</i> previous				
Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	В	2	0	0	0	0
3	С	1	0	0	0	0
3	D	1	0	0	0	0
4	А	1	0	0	0	0
4	В	1	0	0	0	0
4	С	1	0	0	0	0
4	D	1	0	0	0	0
5	В	4	0	0	0	0
5	С	4	0	0	0	0
6	В	6	0	8	0	0
6	С	18	0	24	0	0
7	С	5	0	0	0	0
8	С	1	0	0	0	0
8	D	1	0	0	0	0
9	А	135	0	0	0	0
9	В	116	0	0	0	1
9	С	137	0	0	1	1
9	D	152	0	0	0	0
All	All	8765	0	7807	82	2

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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 5.

The worst 5 of 82 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:D:122:LEU:HD23	1:D:187:ILE:HD11	1.52	0.90
1:C:267:ARG:HG2	1:C:268:LEU:HD23	1.66	0.77
1:A:60:ALA:HB1	1:A:73:LEU:HD12	1.66	0.76
1:D:190:SER:HA	1:D:234:ARG:HG2	1.69	0.73
1:C:60:ALA:HB1	1:C:73:LEU:HD23	1.74	0.69

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)
1:B:91:GLU:OE2	$1:B:212:SER:OG[1_455]$	2.03	0.17
9:B:452:HOH:O	9:C:527:HOH:O[1_654]	2.09	0.11



### 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	А	265/268~(99%)	257~(97%)	6(2%)	2(1%)	16 9
1	В	265/268~(99%)	248~(94%)	15~(6%)	2(1%)	16 9
1	$\mathbf{C}$	265/268~(99%)	253~(96%)	12~(4%)	0	100 100
1	D	265/268~(99%)	255~(96%)	10 (4%)	0	100 100
All	All	1060/1072~(99%)	1013~(96%)	43~(4%)	4 (0%)	30 23

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	39	ARG
1	В	64	ASP
1	В	65	GLU
1	А	90	GLU

#### 5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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 side chain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Perce	ntiles
1	А	220/227~(97%)	213~(97%)	7 (3%)	34	28
1	В	222/227~(98%)	216~(97%)	6 (3%)	40	35
1	С	222/227~(98%)	219~(99%)	3 (1%)	62	63
1	D	221/227~(97%)	218 (99%)	3 (1%)	62	63
All	All	885/908~(98%)	866~(98%)	19 (2%)	48	45



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

Mol	Chain	$\mathbf{Res}$	Type
1	С	61	SER
1	D	150	SER
1	D	152	ASP
1	D	38	CYS
1	В	56	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	178	ASN
1	D	67	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 25 ligands modelled in this entry, 14 are monoatomic - leaving 11 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	Dec	Tiple	B	ond leng	$\operatorname{gths}$	В	ond ang	gles
IVIOI	туре	Unam	Chain Res	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	FES	В	301	1	0,4,4	-	-	-		



Mol	Turne	Chain	Res	Link	В	ond leng	gths	B	ond ang	gles
NIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
2	FES	D	301	1	0,4,4	-	-	-		
2	FES	А	301	1	0,4,4	-	-	-		
7	SO4	С	305	-	4,4,4	0.35	0	$6,\!6,\!6$	0.41	0
2	FES	С	302	1	0,4,4	-	-	-		
5	SO3	С	306	-	$1,\!3,\!3$	0.69	0	$0,\!3,\!3$	-	-
6	GOL	В	303	-	$5,\!5,\!5$	0.79	0	$5,\!5,\!5$	1.03	0
6	GOL	С	301	3	$5,\!5,\!5$	0.86	0	$5,\!5,\!5$	1.23	0
5	SO3	В	302	-	1,3,3	0.67	0	0,3,3	-	-
6	GOL	С	303	-	$5,\!5,\!5$	0.89	0	$5,\!5,\!5$	0.96	0
6	GOL	С	304	-	$5,\!5,\!5$	1.14	0	$5,\!5,\!5$	0.90	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	FES	В	301	1	-	-	0/1/1/1
2	FES	А	301	1	-	-	0/1/1/1
2	FES	D	301	1	-	-	0/1/1/1
6	GOL	В	303	-	-	4/4/4/4	-
6	GOL	С	301	3	-	2/4/4/4	-
2	FES	С	302	1	-	-	0/1/1/1
6	GOL	С	303	-	-	3/4/4/4	-
6	GOL	С	304	-	_	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 11 torsion outliers are listed below:

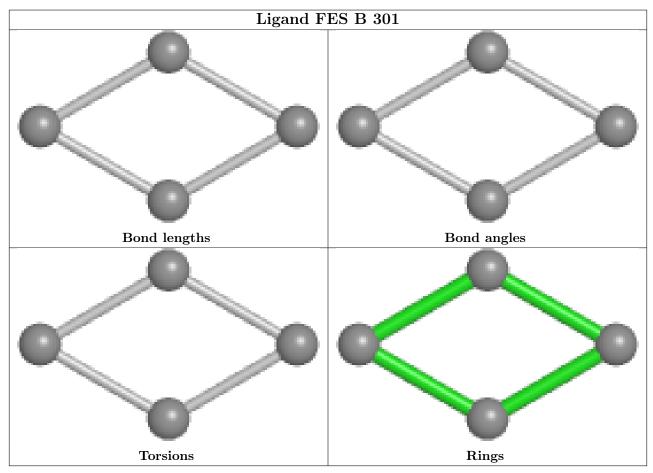
Mol	Chain	Res	Type	Atoms
6	В	303	GOL	O1-C1-C2-C3
6	С	303	GOL	C1-C2-C3-O3
6	С	303	GOL	O2-C2-C3-O3
6	С	304	GOL	C1-C2-C3-O3
6	С	301	GOL	O1-C1-C2-C3

There are no ring outliers.

No monomer is involved in short contacts.

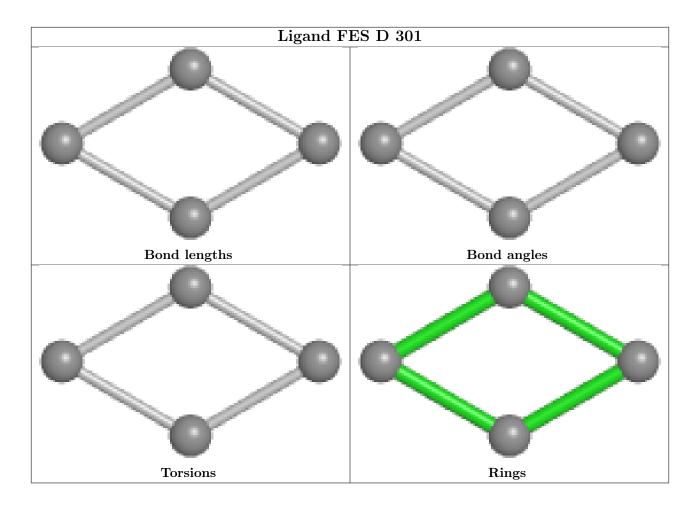


The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.



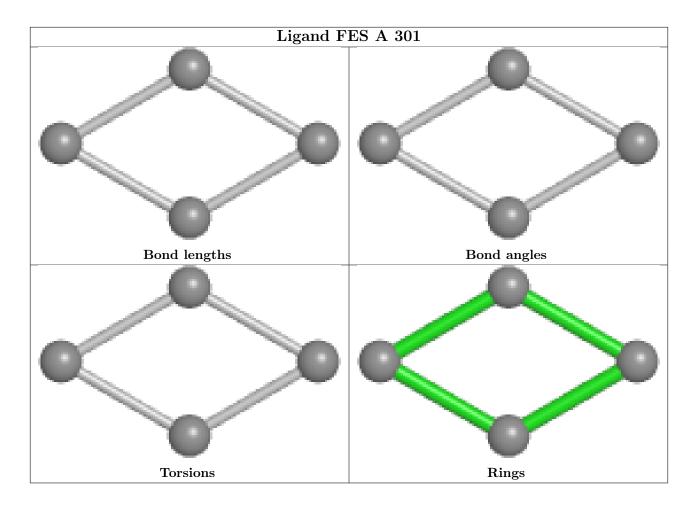






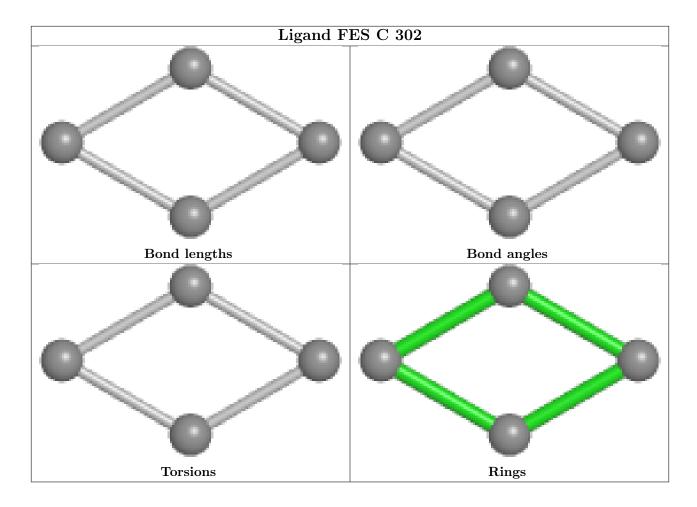












### 5.7 Other polymers (i)

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	<RSRZ $>$	#RSRZ>2			$OWAB(Å^2)$	$\mathbf{Q}{<}0.9$
1	А	267/268~(99%)	0.41	29 (10%)	12	12	28, 43, 84, 92	0
1	В	267/268~(99%)	0.47	25~(9%)	15	17	30, 46, 77, 89	0
1	С	267/268~(99%)	0.23	11 (4%)	42	44	26, 40, 74, 79	0
1	D	267/268~(99%)	0.08	10 (3%)	45	47	26, 38, 68, 76	0
All	All	1068/1072~(99%)	0.30	75 (7%)	24	26	26, 42, 76, 92	0

The worst 5 of 75 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	89	VAL	4.2
1	А	74	THR	3.8
1	А	41	GLY	3.6
1	А	42	SER	3.2
1	А	75	CYS	3.2

## 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)

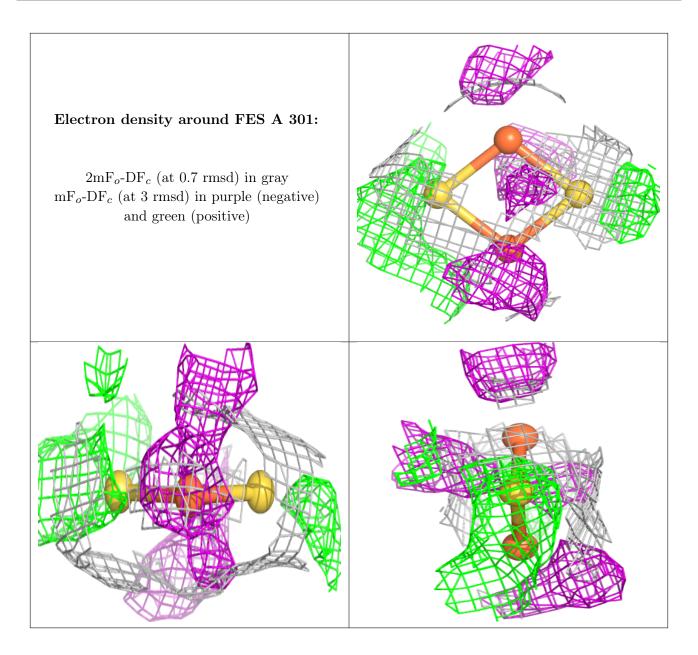
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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



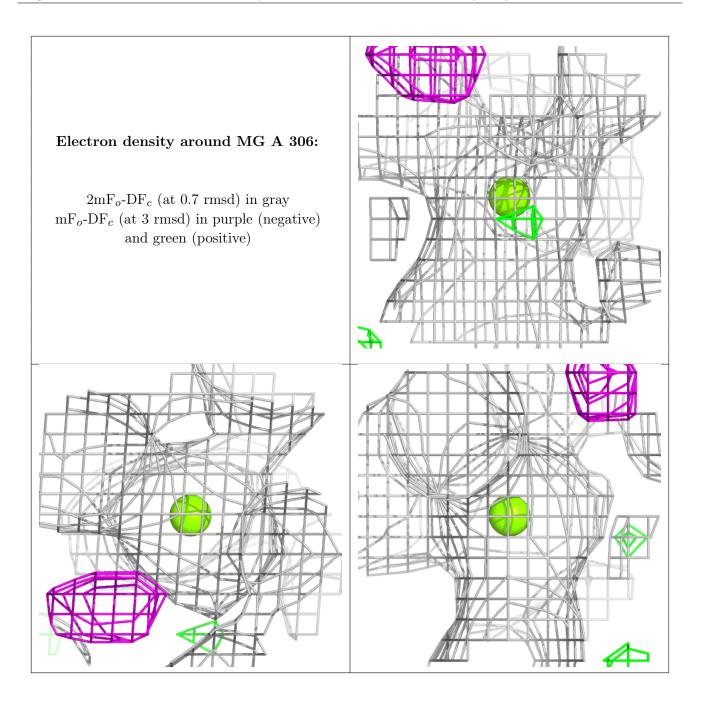
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
6	GOL	В	303	6/6	0.61	0.14	$60,\!67,\!75,\!81$	0
3	NA	В	304	1/1	0.76	0.18	74,74,74,74	0
6	GOL	С	303	6/6	0.79	0.14	73,75,76,78	0
3	NA	А	302	1/1	0.81	0.22	56, 56, 56, 56	0
2	FES	А	301	4/4	0.82	0.12	78,90,96,97	0
6	GOL	С	304	6/6	0.82	0.15	$50,\!53,\!57,\!57$	0
3	NA	В	305	1/1	0.84	0.16	60,60,60,60	0
3	NA	D	302	1/1	0.86	0.14	$63,\!63,\!63,\!63$	0
8	CL	D	303	1/1	0.86	0.11	70,70,70,70	0
5	SO3	С	306	4/4	0.87	0.11	$55,\!56,\!68,\!82$	0
3	NA	А	305	1/1	0.90	0.11	45,45,45,45	0
3	NA	А	303	1/1	0.90	0.13	56, 56, 56, 56	0
7	SO4	С	305	5/5	0.90	0.17	41,43,54,73	0
6	GOL	С	301	6/6	0.90	0.14	$50,\!54,\!56,\!57$	0
8	CL	С	308	1/1	0.93	0.09	$71,\!71,\!71,\!71$	0
4	MG	А	306	1/1	0.95	0.06	42,42,42,42	0
5	SO3	В	302	4/4	0.95	0.11	$56,\!57,\!58,\!71$	0
4	MG	D	304	1/1	0.96	0.07	39,39,39,39	0
4	MG	В	306	1/1	0.96	0.05	49,49,49,49	0
3	NA	А	304	1/1	0.97	0.09	$52,\!52,\!52,\!52$	0
4	MG	С	309	1/1	0.97	0.05	42,42,42,42	0
3	NA	С	307	1/1	0.97	0.05	48,48,48,48	0
2	FES	D	301	4/4	0.98	0.05	52,56,59,60	0
2	FES	С	302	4/4	0.98	0.07	50,52,58,60	0
2	FES	В	301	4/4	1.00	0.03	41,42,44,44	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.

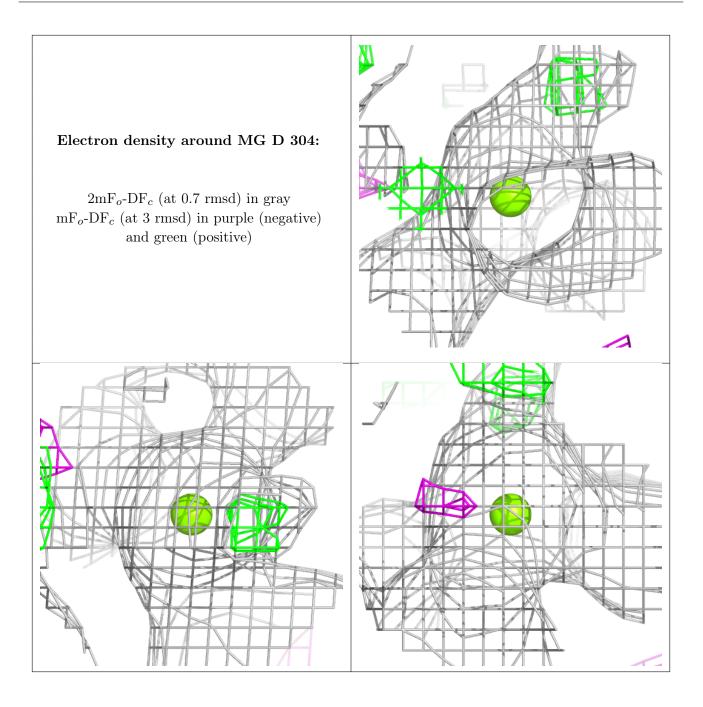




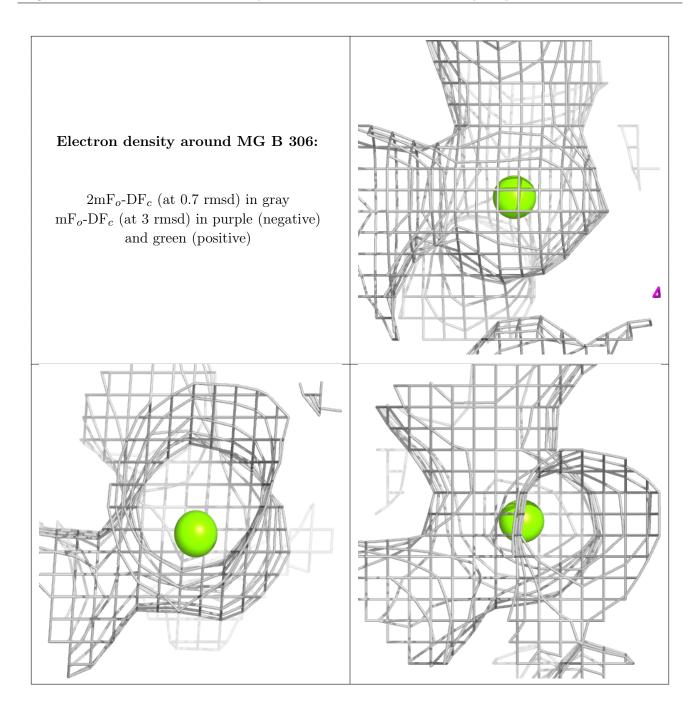




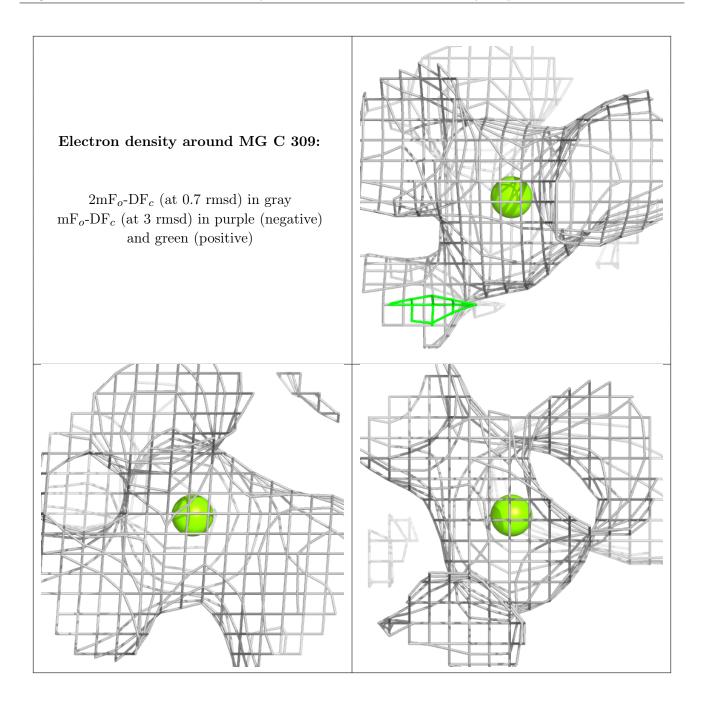




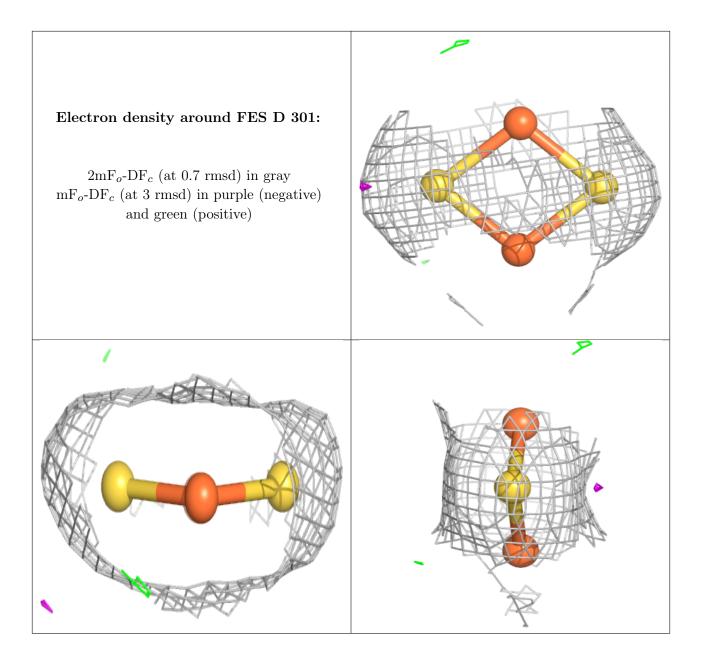




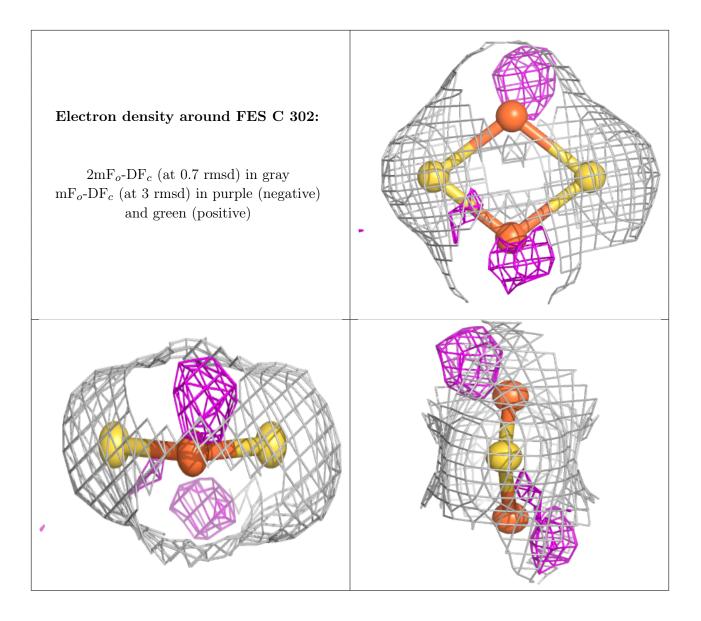




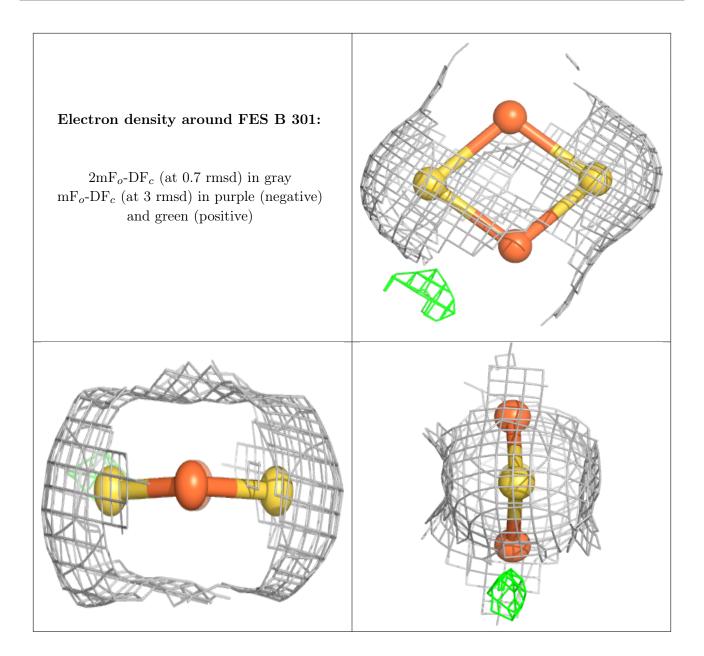












## 6.5 Other polymers (i)

There are no such residues in this entry.

