

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

#### Jun 15, 2024 – 08:13 PM EDT

PDB ID	:	4NAJ
Title	:	Crystal Structure of Two-Domain Laccase from Streptomyces Lividans AC1709
		in complex with azide after 90 min soaking
Authors	:	Gabdulkhakov, A.; Tischenko, S.; Yurevich, L.; Lisov, A.; Leontievsky, A.
Deposited on	:	2013-10-22
Resolution	:	2.60  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:

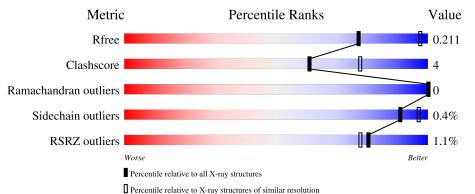
Xtriage (Phenix) EDS buster-report Percentile statistics Refmac CCP4 Ideal geometry (proteins) Ideal geometry (DNA, RNA)	: : : : :	20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove) Engh & Huber (2001) Parkinson et al. (1996)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		Parkinson et al. (1996) 2.37.1

# 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 2.60 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	3163 (2.60-2.60)
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)

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		
		0.40	% •		
1	A	343	74%	8%	19%

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
5	GOL	А	408	-	-	-	Х



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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	GOL	А	410	-	-	-	Х



 $\mathbf{2}$ 

# Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 2406 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.

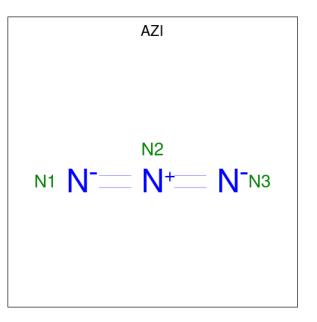
• Molecule 1 is a protein called Copper oxidase.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	А	279	Total 2154	C 1346	N 393	0 404	S 11	1	0	0

• Molecule 2 is COPPER (II) ION (three-letter code: CU) (formula: Cu).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	4	Total Cu 4 4	0	0

• Molecule 3 is AZIDE ION (three-letter code: AZI) (formula: N<sub>3</sub>).



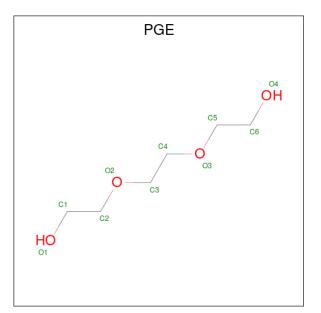
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total N 3 3	0	0
3	А	1	Total N 3 3	0	0



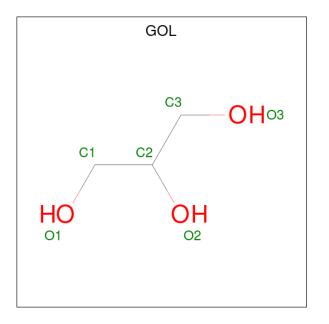
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Mo	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total N 3 3	0	0

• Molecule 4 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula:  $C_6H_{14}O_4$ ).



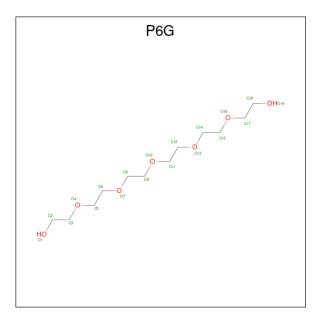
Mo	bl	Chain	Residues	Atoms			ZeroOcc	AltConf
4		А	1	Total 10	C 6	0 4	0	0





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

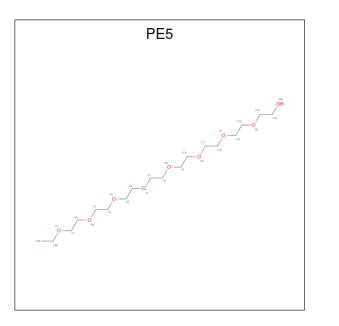
• Molecule 6 is HEXAETHYLENE GLYCOL (three-letter code: P6G) (formula:  $C_{12}H_{26}O_7$ ).



Mol	Chain	Residues	At	$\mathbf{oms}$		ZeroOcc	AltConf
6	А	1	Total 19	C 12	O 7	0	0

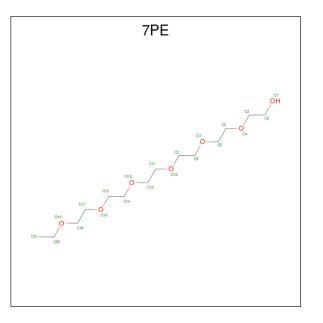
• Molecule 7 is 3,6,9,12,15,18,21,24-OCTAOXAHEXACOSAN-1-OL (three-letter code: PE5) (formula:  $C_{18}H_{38}O_9$ ).





Mo	bl	Chain	Residues	At	$\mathbf{oms}$		ZeroOcc	AltConf
7		А	1	Total 27	C 18	O 9	0	0

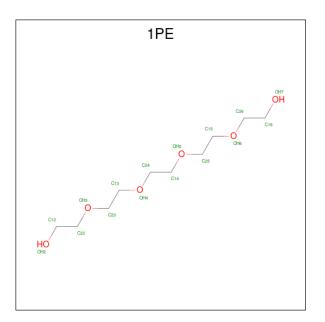
• Molecule 8 is 2-(2-(2-(2-(2-(2-(2-ETHOXYETHOXY)



Mol	Chain	Residues	Ate	oms		ZeroOcc	AltConf
8	А	1	Total 21	C 14	0 7	0	0

• Molecule 9 is PENTAETHYLENE GLYCOL (three-letter code: 1PE) (formula:  $C_{10}H_{22}O_6$ ).





Mol	Chain	Residues	At	oms		ZeroOcc	AltConf
9	А	1	Total 16	C 10	O 6	0	0

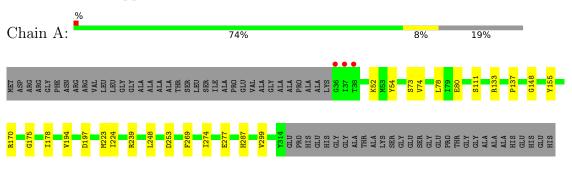
• Molecule 10 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	А	122	Total         O           122         122	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: Copper oxidase



### 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 43 3 2	Depositor
Cell constants	177.02Å 177.02Å 177.02Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	49.10 - 2.60	Depositor
Resolution (A)	49.10 - 2.60	EDS
% Data completeness	99.8 (49.10-2.60)	Depositor
(in resolution range)	99.8 (49.10-2.60)	EDS
R <sub>merge</sub>	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.04 (at 2.61 \text{\AA})$	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.4_1496)	Depositor
B B.	0.169 , $0.208$	Depositor
$R, R_{free}$	0.175 , $0.211$	DCC
$R_{free}$ test set	1484 reflections $(5.00\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	48.9	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.35 , $56.6$	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.43, < L^2 > = 0.26$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	2406	wwPDB-VP
Average B, all atoms $(Å^2)$	49.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.27% 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: PE5, P6G, GOL, 7PE, PGE, CU, AZI, 1PE

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	А	0.43	0/2216	0.58	0/3007

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	2154	0	2038	17	0
2	А	4	0	0	0	0
3	А	9	0	0	0	0
4	А	10	0	14	0	0
5	А	24	0	32	0	0
6	А	19	0	26	0	0
7	А	27	0	38	2	0
8	А	21	0	30	4	0
9	А	16	0	22	2	0
10	А	122	0	0	5	0
All	All	2406	0	2200	20	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.



4NAJ	4N	А	J
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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:VAL:H	9:A:416:1PE:H141	1.50	0.74
1:A:170:ARG:HG3	8:A:415:7PE:H31	1.69	0.73
1:A:223:MET:HE3	10:A:502:HOH:O	2.07	0.54
1:A:133:ARG:HD2	10:A:598:HOH:O	2.10	0.51
1:A:197:ASP:HB2	8:A:415:7PE:H21	1.94	0.49
1:A:287:HIS:HB3	1:A:299:VAL:HG13	1.94	0.49
1:A:73:SER:HA	9:A:416:1PE:H142	1.95	0.48
1:A:137:PRO:HD3	1:A:148:GLY:HA3	1.96	0.48
1:A:239:ARG:NH1	10:A:530:HOH:O	2.47	0.48
1:A:248:LEU:HD22	1:A:253:ASP:HB3	1.96	0.47
7:A:414:PE5:H111	7:A:414:PE5:H52A	1.97	0.46
1:A:223:MET:HG2	1:A:269:PHE:CZ	2.50	0.46
1:A:78:LEU:HD11	1:A:178:ILE:HG13	1.99	0.44
8:A:415:7PE:H82	10:A:613:HOH:O	2.18	0.43
1:A:52:LYS:HD3	1:A:54:TYR:OH	2.20	0.42
1:A:194:VAL:HG22	1:A:224:ILE:HB	2.01	0.42
8:A:415:7PE:H81	10:A:614:HOH:O	2.20	0.42
1:A:274:ILE:HB	1:A:277:GLU:HB2	2.01	0.41
1:A:155:TYR:CZ	1:A:175:GLY:HA3	2.56	0.41
1:A:80:GLU:HG2	7:A:414:PE5:H162	2.03	0.40

All (20) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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	277/343~(81%)	265~(96%)	12 (4%)	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	223/262~(85%)	222 (100%)	1 (0%)	91 97

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	111	SER

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. There are no such side chains 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)

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)

Of 16 ligands modelled in this entry, 4 are monoatomic - leaving 12 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
10101	Type	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
4	PGE	А	406	-	$9,\!9,\!9$	0.37	0	8,8,8	0.20	0
5	GOL	А	409	-	$5,\!5,\!5$	0.40	0	$5,\!5,\!5$	0.23	0
5	GOL	А	407	-	$5,\!5,\!5$	0.38	0	$5,\!5,\!5$	0.16	0
3	AZI	А	413	-	0,2,2	-	-	0,1,1	-	-
5	GOL	А	410	-	$5,\!5,\!5$	0.38	0	$5,\!5,\!5$	0.30	0
8	7PE	А	415	-	20,20,20	0.48	0	19,19,19	0.50	0
9	1PE	А	416	-	$15,\!15,\!15$	0.50	0	14,14,14	0.45	0
3	AZI	А	412	-	0,2,2	-	-	0,1,1	-	-
7	PE5	А	414	-	26,26,26	0.56	0	$25,\!25,\!25$	0.32	0
6	P6G	А	411	-	18,18,18	0.49	0	17,17,17	0.32	0
5	GOL	А	408	-	$5,\!5,\!5$	0.33	0	$5,\!5,\!5$	0.36	0
3	AZI	А	405	-	0,2,2	-	-	0,1,1	-	-

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	PGE	А	406	-	-	3/7/7/7	-
5	GOL	А	409	-	-	4/4/4/4	-
5	GOL	А	407	-	-	2/4/4/4	-
8	7PE	А	415	-	-	10/18/18/18	-
5	GOL	А	410	-	-	2/4/4/4	-
7	PE5	А	414	-	-	9/24/24/24	-
6	P6G	А	411	-	-	5/16/16/16	-
5	GOL	А	408	-	-	4/4/4/4	-
9	1PE	А	416	-	-	5/13/13/13	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (44) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	А	407	GOL	O1-C1-C2-C3
5	А	408	GOL	C1-C2-C3-O3
5	А	409	GOL	O1-C1-C2-C3
5	А	409	GOL	C1-C2-C3-O3



Mol	nuea fron Chain	Res	Type	Atoms
5	А	410	GOL	O1-C1-C2-C3
8	А	415	7PE	O7-C8-C9-O10
9	А	416	1PE	OH2-C12-C22-OH3
7	А	414	PE5	O1-C1-C2-O2
5	А	408	GOL	O1-C1-C2-C3
5	А	407	GOL	O1-C1-C2-O2
5	А	408	GOL	O1-C1-C2-O2
5	А	409	GOL	O1-C1-C2-O2
5	А	409	GOL	O2-C2-C3-O3
5	А	410	GOL	O1-C1-C2-O2
7	А	414	PE5	O3-C5-C6-O4
7	А	414	PE5	O7-C13-C14-O8
4	А	406	PGE	O3-C5-C6-O4
6	А	411	P6G	O16-C17-C18-O19
5	А	408	GOL	O2-C2-C3-O3
7	А	414	PE5	O8-C15-C16-O52
8	А	415	7PE	O1-C2-C3-O4
7	А	414	PE5	C8-C7-O4-C6
8	А	415	7PE	C8-C9-O10-C11
9	А	416	1PE	C24-C14-OH5-C25
7	А	414	PE5	C2-C1-O1-C50
9	А	416	1PE	C15-C25-OH5-C14
7	А	414	PE5	C16-C15-O8-C14
6	А	411	P6G	C15-C14-O13-C12
8	А	415	7PE	C6-C5-O4-C3
8	А	415	7PE	C12-C11-O10-C9
9	А	416	1PE	C14-C24-OH4-C13
8	А	415	7PE	C9-C8-O7-C6
6	А	411	P6G	C18-C17-O16-C15
4	A	406	PGE	O1-C1-C2-O2
8	А	415	7PE	C14-C15-O16-C17
6	А	411	P6G	O7-C8-C9-O10
4	А	406	PGE	C3-C4-O3-C5
7	А	414	PE5	C5-C6-O4-C7
8	А	415	7PE	O16-C17-C18-O19
7	А	414	PE5	C6-C5-O3-C4
6	А	411	P6G	C8-C9-O10-C11
8	А	415	7PE	O10-C11-C12-O13
8	А	415	7PE	C2-C3-O4-C5
9	А	416	1PE	C25-C15-OH6-C26

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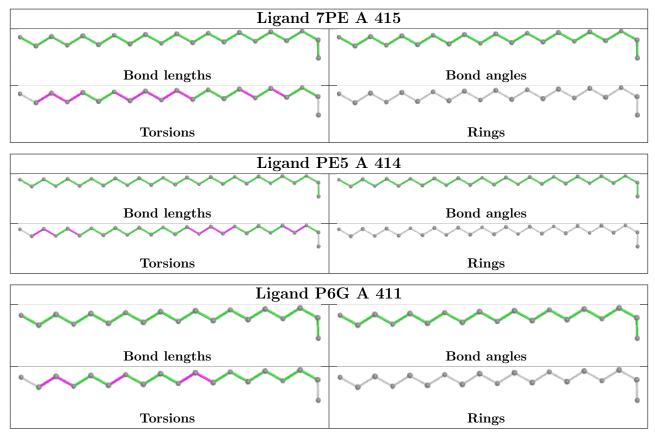
There are no ring outliers.



Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	А	415	7PE	4	0
9	А	416	1PE	2	0
7	А	414	PE5	2	0

3 monomers are involved in 8 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 similar 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,  $95^{th}$  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	$OWAB(Å^2)$	Q<0.9
1	А	279/343~(81%)	-0.49	3 (1%) 80 78	31, 44, 65, 119	1 (0%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	37	ILE	3.9
1	А	36	GLY	2.6
1	А	38	THR	2.3

#### 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.

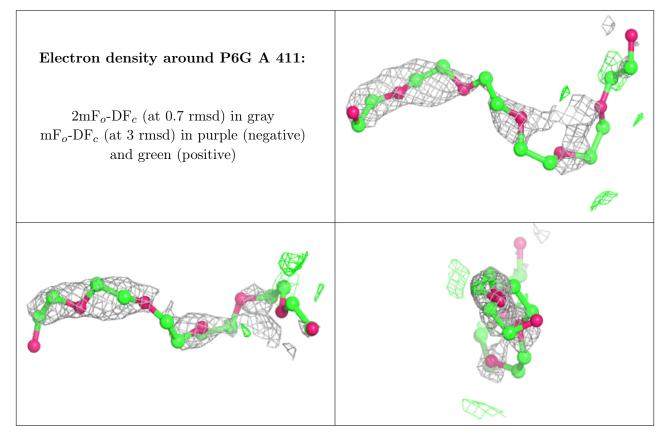
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
5	GOL	А	408	6/6	0.67	0.44	$105,\!109,\!118,\!120$	0
6	P6G	А	411	19/19	0.72	0.30	$103,\!115,\!135,\!137$	0
3	AZI	А	405	3/3	0.73	0.22	$69,\!69,\!73,\!79$	0
3	AZI	А	413	3/3	0.75	0.35	35,35,38,42	3



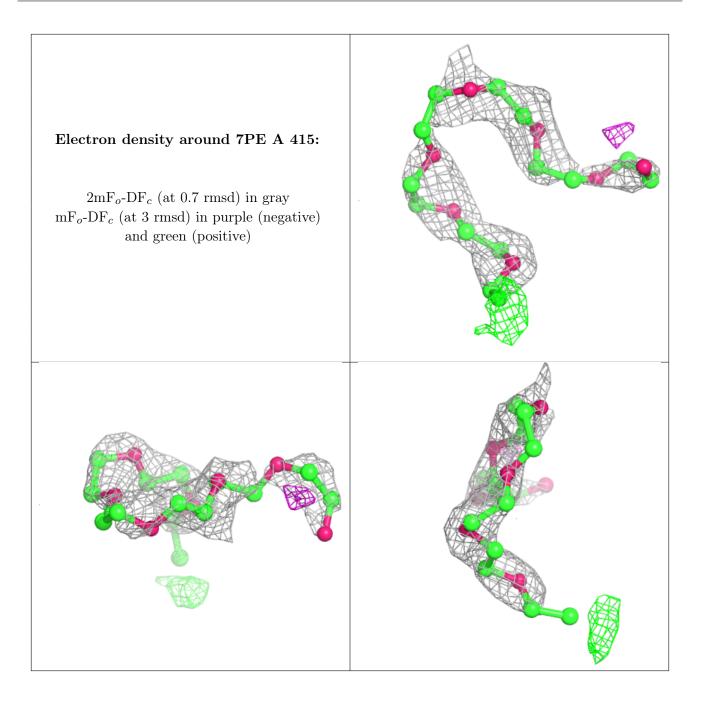
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
5	GOL	А	410	6/6	0.78	0.55	112,118,123,125	0
5	GOL	А	407	6/6	0.80	0.30	89,90,94,94	0
8	7PE	А	415	21/21	0.81	0.34	92,105,114,115	0
7	PE5	А	414	27/27	0.84	0.23	64,86,103,110	0
5	GOL	А	409	6/6	0.84	0.22	84,86,92,94	0
9	1PE	А	416	16/16	0.84	0.28	99,106,113,115	0
3	AZI	А	412	3/3	0.87	0.29	26,26,28,31	3
4	PGE	А	406	10/10	0.89	0.24	66,71,77,77	0
2	CU	А	404	1/1	0.98	0.12	$51,\!51,\!51,\!51$	1
2	CU	А	402	1/1	1.00	0.10	42,42,42,42	0
2	CU	А	403	1/1	1.00	0.09	$50,\!50,\!50,\!50$	0
2	CU	А	401	1/1	1.00	0.10	40,40,40,40	0

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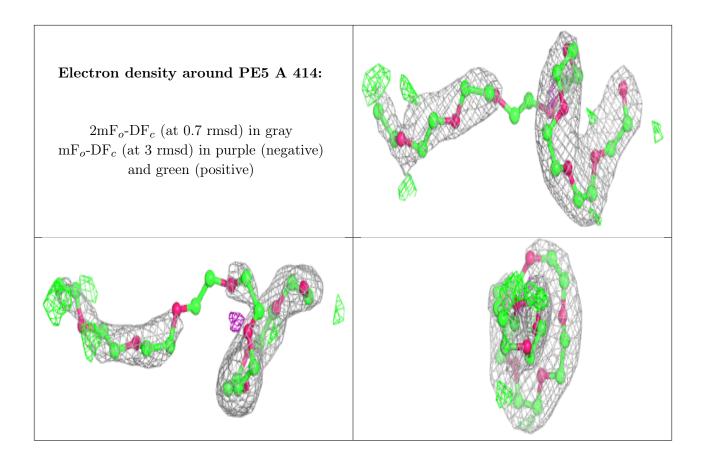
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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











### 6.5 Other polymers (i)

There are no such residues in this entry.

