

wwPDB X-ray Structure Validation Summary Report (i)

Sep 19, 2024 – 01:18 pm BST

:	8QJM
:	SmNuc1 nuclease from Stenotrophomonas maltophilia in complex with cytidi
	ne-5'-monophosphate
:	Adamkova, K.; Koval, T.; Kolenko, P.; Dohnalek, J.
:	2023-09-13
:	1.65 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:

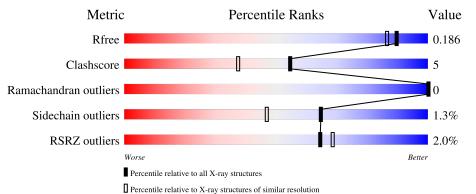
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as 541 be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
buster-report	:	1.1.7(2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.002 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (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 1.65 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}	164625	2328 (1.66-1.66)
Clashscore	180529	2515(1.66-1.66)
Ramachandran outliers	177936	2475 (1.66-1.66)
Sidechain outliers	177891	2475 (1.66-1.66)
RSRZ outliers	164620	2328 (1.66-1.66)

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	254	2% 90%	7%	·
1	В	254	^{2%} 91%	7%	·

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
6	1PE	В	306	-	-	Х	-



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 4659 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		Ate	oms			ZeroOcc	AltConf	Trace
1	А	248		C 1231		O 364	S 8	0	8	0
1	В	249	Total 1974	C 1223	N 379	O 365	S 7	0	5	0

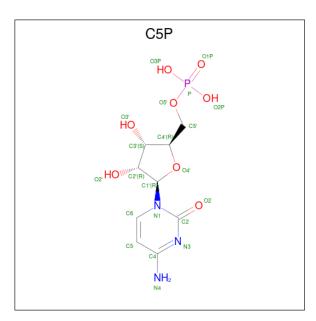
• Molecule 1 is a protein called S1/P1 Nuclease.

Chain	Residue	Modelled	Actual	Comment	Reference
А	273	LEU	-	expression tag	UNP J7SYS2
А	274	GLU	-	expression tag	UNP J7SYS2
А	275	HIS	-	expression tag	UNP J7SYS2
А	276	HIS	-	expression tag	UNP J7SYS2
A	277	HIS	-	expression tag	UNP J7SYS2
A	278	HIS	-	expression tag	UNP J7SYS2
А	279	HIS	-	expression tag	UNP J7SYS2
A	280	HIS	-	expression tag	UNP J7SYS2
В	273	LEU	-	expression tag	UNP J7SYS2
В	274	GLU	-	expression tag	UNP J7SYS2
В	275	HIS	-	expression tag	UNP J7SYS2
В	276	HIS	-	expression tag	UNP J7SYS2
В	277	HIS	-	expression tag	UNP J7SYS2
В	278	HIS	-	expression tag	UNP J7SYS2
В	279	HIS	-	expression tag	UNP J7SYS2
В	280	HIS	-	expression tag	UNP J7SYS2

There are 16 discrepancies between the modelled and reference sequences:

• Molecule 2 is CYTIDINE-5'-MONOPHOSPHATE (three-letter code: C5P) (formula: $C_9H_{14}N_3O_8P$) (labeled as "Ligand of Interest" by depositor).



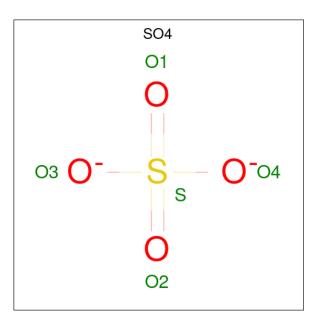


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	А	1	Total	-		-		0	0
		_	21	9	3	8	1		
2	В	1	Total	С	Ν	Ο	Р	0	0
2	D	1	21	9	3	8	1	0	0
2	В	1	Total	С	N	0	Р	0	0
	D		21	9	3	8	1	0	U

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	3	Total Zn 3 3	0	0
3	В	3	Total Zn 3 3	0	0





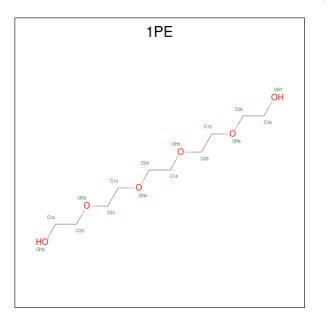
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
4	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
4	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$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

• Molecule 5 is SODIUM ION (three-letter code: NA) (formula: Na).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total Na 1 1	0	0

• Molecule 6 is PENTAETHYLENE GLYCOL (three-letter code: 1PE) (formula: $C_{10}H_{22}O_6$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	В	1	Total 16	C 10	O 6	0	0

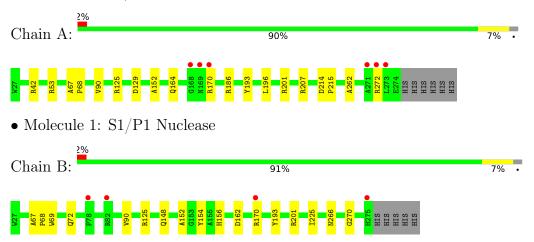
• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	277	Total O 280 280	0	4
7	В	261	Total O 265 265	0	9



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: S1/P1 Nuclease



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	43.14Å 72.81Å 81.24Å	Depositor
a, b, c, α , β , γ	90.00° 105.07° 90.00°	Depositor
Resolution (Å)	41.66 - 1.65	Depositor
Resolution (A)	41.66 - 1.65	EDS
% Data completeness	99.0 (41.66-1.65)	Depositor
(in resolution range)	$99.0 \ (41.66 - 1.65)$	EDS
R _{merge}	0.12	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.04 (at 1.65 Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
P. P.	0.173 , 0.198	Depositor
R, R_{free}	0.186 , 0.186	DCC
R_{free} test set	2847 reflections $(4.88%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	9.8	Xtriage
Anisotropy	0.742	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.40 , 52.7	EDS
L-test for twinning ²	$< L > = 0.48, < L^2 > = 0.30$	Xtriage
Estimated twinning fraction	0.041 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4659	wwPDB-VP
Average B, all atoms $(Å^2)$	13.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.23% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: 1PE, C5P, ZN, NA, 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	0.75	0/2050	0.83	0/2775	
1	В	0.73	0/2030	0.86	0/2752	
All	All	0.74	0/4080	0.84	0/5527	

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	1989	0	1970	17	0
1	В	1974	0	1942	19	0
2	А	21	0	12	0	0
2	В	42	0	24	0	0
3	А	3	0	0	0	0
3	В	3	0	0	0	0
4	А	40	0	0	2	0
4	В	25	0	0	0	0
5	А	1	0	0	0	0
6	В	16	0	22	8	0
7	A	280	0	0	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	В	265	0	0	7	0
All	All	4659	0	3970	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 5.

The worst 5 of 38 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)
4:A:308:SO4:O3	7:A:700[B]:HOH:O	1.61	1.14
4:A:310:SO4:O2	7:A:681:HOH:O	1.92	0.88
1:A:272:ARG:NH1	7:A:682:HOH:O	2.21	0.73
1:B:156:HIS:HE1	6:B:306:1PE:H141	1.54	0.71
1:A:125[A]:ARG:NH1	7:A:684:HOH:O	2.26	0.68

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	ntiles
1	А	254/254~(100%)	248~(98%)	6~(2%)	0	100	100
1	В	252/254~(99%)	247 (98%)	5(2%)	0	100	100
All	All	506/508~(100%)	495~(98%)	11 (2%)	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	204/202~(101%)	201~(98%)	3~(2%)	60	41	
1	В	202/202~(100%)	200~(99%)	2(1%)	73	59	
All	All	406/404 (100%)	401 (99%)	5 (1%)	65	50	

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	164	GLN
1	А	170	ARG
1	А	193	TYR
1	В	148	GLN
1	В	193	TYR

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

Mol	Chain	Res	Type
1	А	96	ASN
1	В	72	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 24 ligands modelled in this entry, 7 are monoatomic - leaving 17 for Mogul analysis.



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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
INIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
4	SO4	В	310	-	4,4,4	0.47	0	$6,\!6,\!6$	0.06	0
4	SO4	А	307	-	4,4,4	0.36	0	$6,\!6,\!6$	0.17	0
4	SO4	А	308	-	4,4,4	0.41	0	$6,\!6,\!6$	0.16	0
4	SO4	А	310	-	4,4,4	0.36	0	$6,\!6,\!6$	0.14	0
4	SO4	В	307	-	4,4,4	0.34	0	$6,\!6,\!6$	0.22	0
4	SO4	А	306	-	4,4,4	0.27	0	$6,\!6,\!6$	0.24	0
4	SO4	А	312	-	4,4,4	0.37	0	$6,\!6,\!6$	0.14	0
2	C5P	В	302	-	22,22,22	0.38	0	33,33,33	0.62	0
4	SO4	В	308	-	4,4,4	0.45	0	$6,\!6,\!6$	0.49	0
4	SO4	А	309	-	4,4,4	0.44	0	$6,\!6,\!6$	0.11	0
4	SO4	В	309	-	4,4,4	0.31	0	$6,\!6,\!6$	0.14	0
4	SO4	В	311	-	4,4,4	0.51	0	$6,\!6,\!6$	0.17	0
2	C5P	В	301	3	22,22,22	0.79	2 (9%)	33,33,33	0.80	1 (3%)
6	1PE	В	306	-	15,15,15	0.31	0	14,14,14	0.27	0
4	SO4	А	305	-	4,4,4	0.21	0	$6,\!6,\!6$	0.27	0
4	SO4	А	311	-	4,4,4	0.42	0	6,6,6	0.07	0
2	C5P	А	301	3	22,22,22	0.81	1 (4%)	33,33,33	0.76	2 (6%)

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	C5P	В	302	-	-	3/10/26/26	0/2/2/2
2	C5P	В	301	3	-	1/10/26/26	0/2/2/2
2	C5P	А	301	3	-	1/10/26/26	0/2/2/2
6	1PE	В	306	-	-	6/13/13/13	_

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	В	301	C5P	P-O3P	-2.70	1.44	1.54
2	А	301	C5P	P-O3P	2.38	1.64	1.54

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(Å)	Ideal(Å)
2	В	301	C5P	P-O1P	2.29	1.57	1.50

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	301	C5P	O3P-P-O1P	2.74	121.41	110.68
2	А	301	C5P	O2'-C2'-C1'	-2.62	101.25	110.02
2	А	301	C5P	O2P-P-O1P	2.29	119.66	110.68

There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
2	В	302	C5P	C5'-O5'-P-O3P
2	В	302	C5P	C5'-O5'-P-O2P
6	В	306	1PE	OH7-C16-C26-OH6
2	В	302	C5P	C5'-O5'-P-O1P
2	А	301	C5P	C5'-O5'-P-O2P

5 of 11 torsion outliers are listed below:

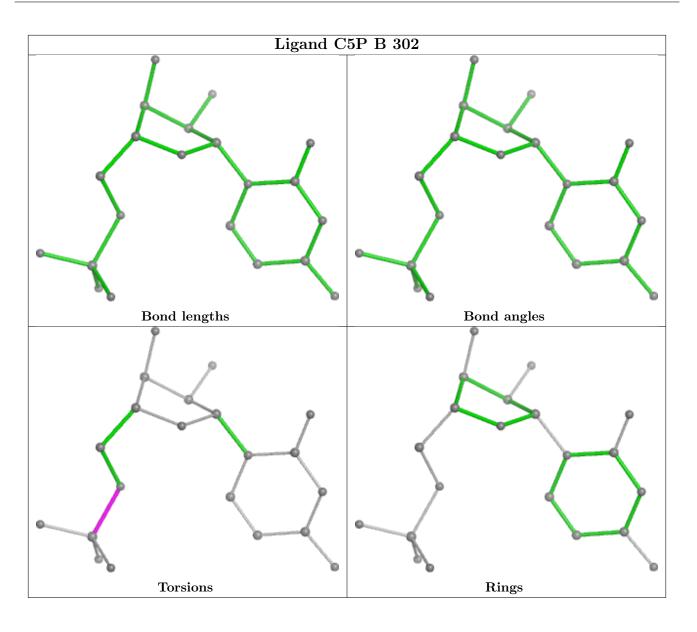
There are no ring outliers.

3 monomers are involved in 10 short contacts:

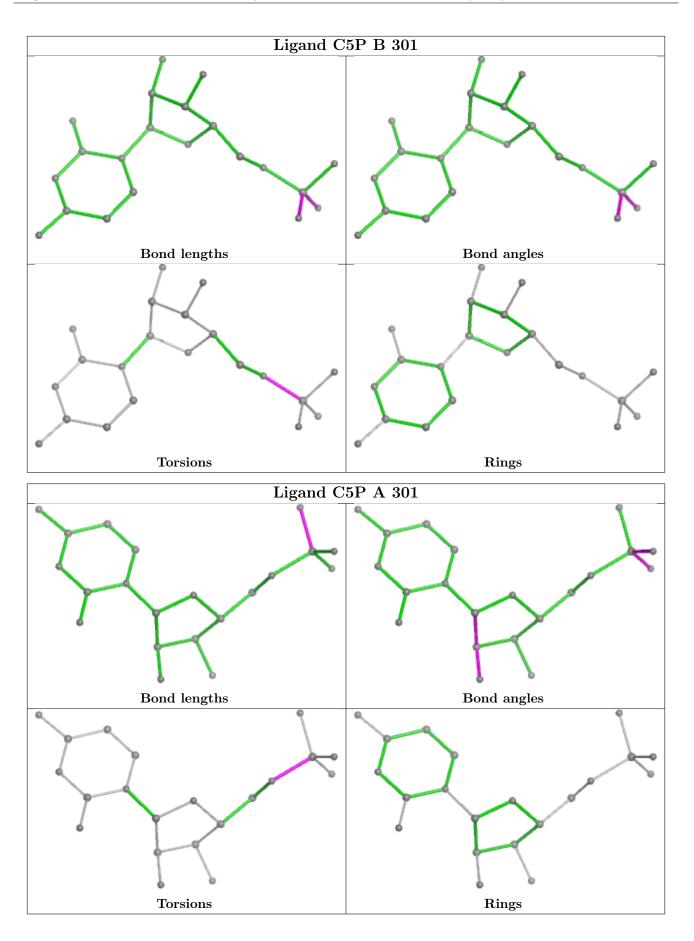
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	А	308	SO4	1	0
4	А	310	SO4	1	0
6	В	306	1PE	8	0

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 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	$\langle RSRZ \rangle$	# RSR	Z>2	$\mathbf{OWAB}(\mathbf{\AA}^2)$	Q < 0.9
1	А	248/254~(97%)	-0.18	6 (2%) 59	9 63	3, 9, 24, 54	9~(3%)
1	В	249/254~(98%)	-0.13	4 (1%) 70	0 74	4, 10, 24, 42	5 (2%)
All	All	497/508~(97%)	-0.16	10 (2%) 6	64 68	3, 9, 24, 54	14 (2%)

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	273	LEU	4.2
1	В	275	HIS	4.1
1	А	271	ALA	3.9
1	А	272	ARG	3.8
1	В	170	ARG	3.1

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)

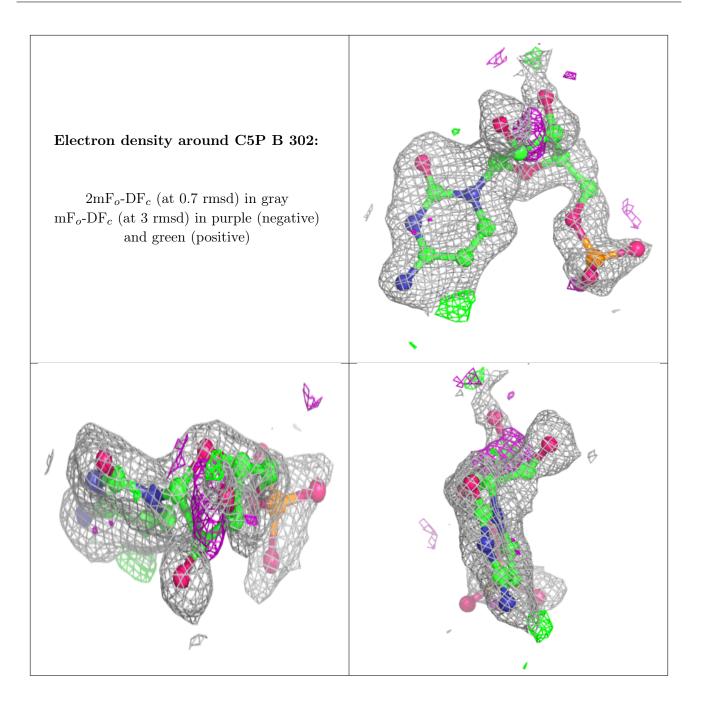
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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



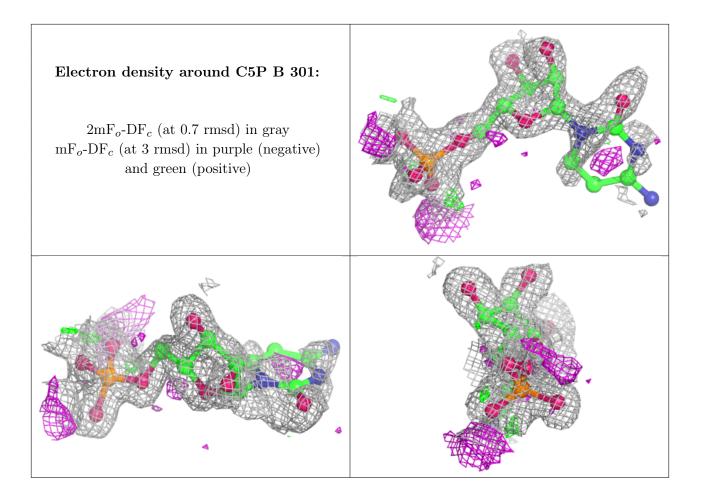
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B -factors($Å^2$)	Q<0.9
4	SO4	А	311	5/5	0.79	0.20	28,29,31,32	5
6	1PE	В	306	16/16	0.79	0.17	32,34,36,37	0
4	SO4	А	312	5/5	0.80	0.15	48,52,54,57	0
2	C5P	В	302	21/21	0.82	0.14	22,27,56,58	0
4	SO4	А	309	5/5	0.85	0.21	39,40,44,46	5
4	SO4	В	310	5/5	0.88	0.19	26,27,29,29	5
5	NA	А	313	1/1	0.91	0.11	47,47,47,47	0
4	SO4	А	310	5/5	0.92	0.10	18,18,18,19	5
4	SO4	В	311	5/5	0.92	0.14	18,18,21,22	5
4	SO4	А	308	5/5	0.93	0.11	14,14,16,16	5
2	C5P	В	301	21/21	0.93	0.13	15,26,45,49	0
4	SO4	А	307	5/5	0.93	0.15	22,23,24,25	0
4	SO4	А	306	5/5	0.95	0.10	27,27,29,33	0
4	SO4	В	307	5/5	0.95	0.09	21,22,24,26	0
2	C5P	А	301	21/21	0.95	0.10	8,18,33,37	0
4	SO4	В	309	5/5	0.97	0.12	18,19,20,21	0
4	SO4	А	305	5/5	0.98	0.07	14,15,16,16	0
4	SO4	В	308	5/5	0.99	0.05	11,12,13,14	0
3	ZN	В	403	1/1	0.99	0.07	13,13,13,13	0
3	ZN	А	402	1/1	1.00	0.03	5, 5, 5, 5	0
3	ZN	А	403	1/1	1.00	0.03	9,9,9,9	0
3	ZN	В	401	1/1	1.00	0.02	6,6,6,6	0
3	ZN	В	402	1/1	1.00	0.04	9,9,9,9	0
3	ZN	А	401	1/1	1.00	0.03	4,4,4,4	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.

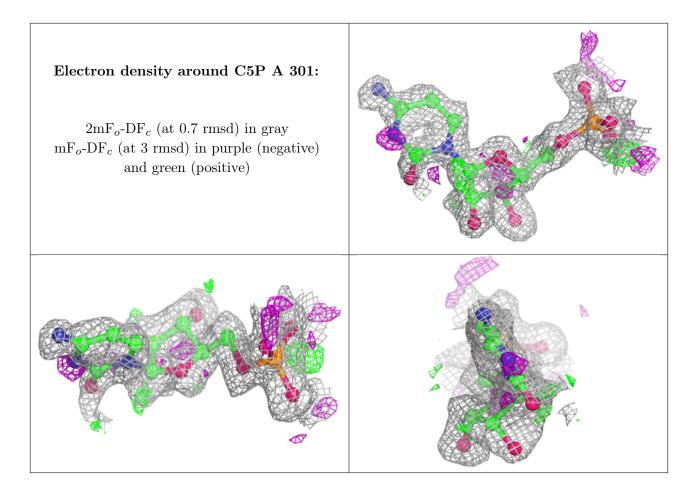




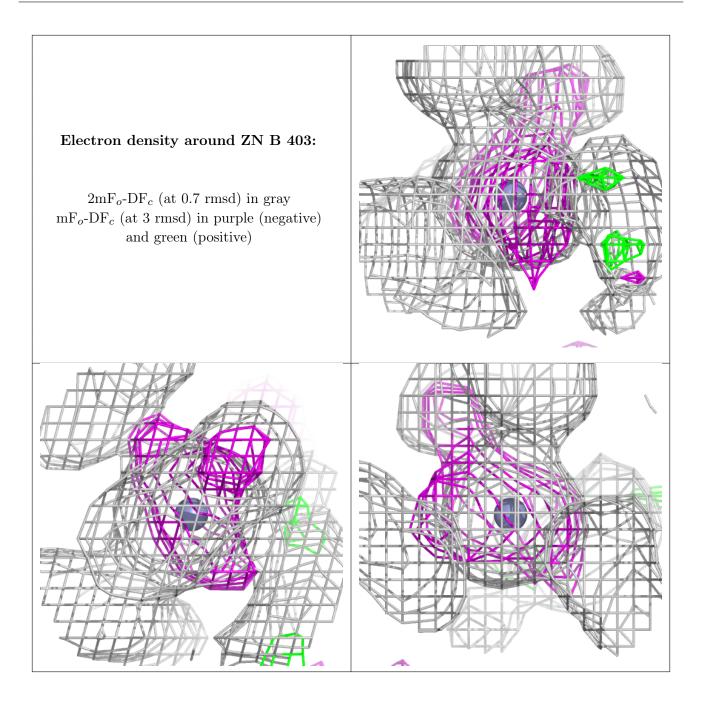




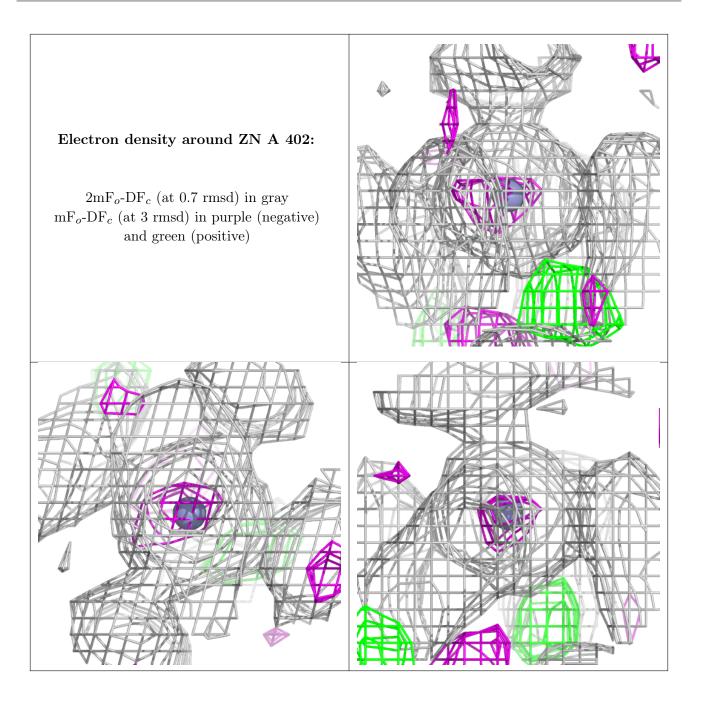




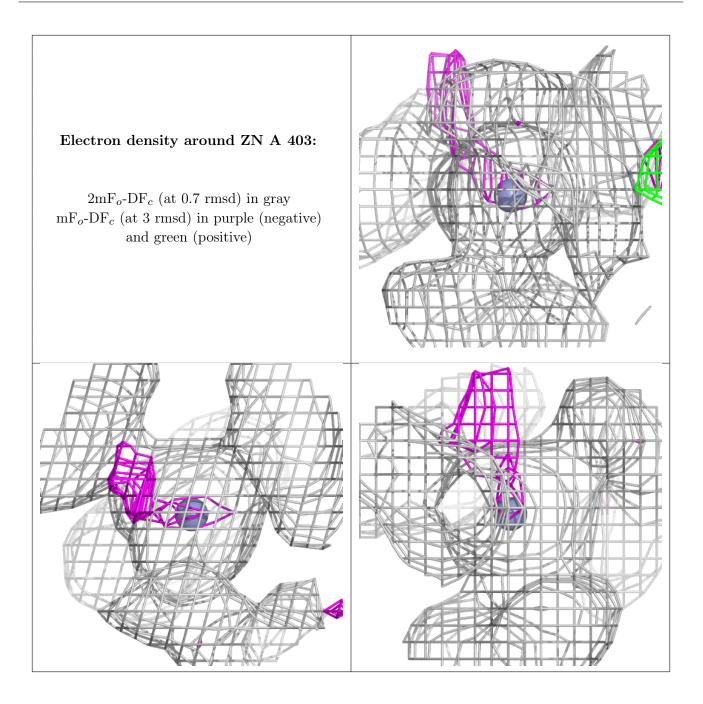




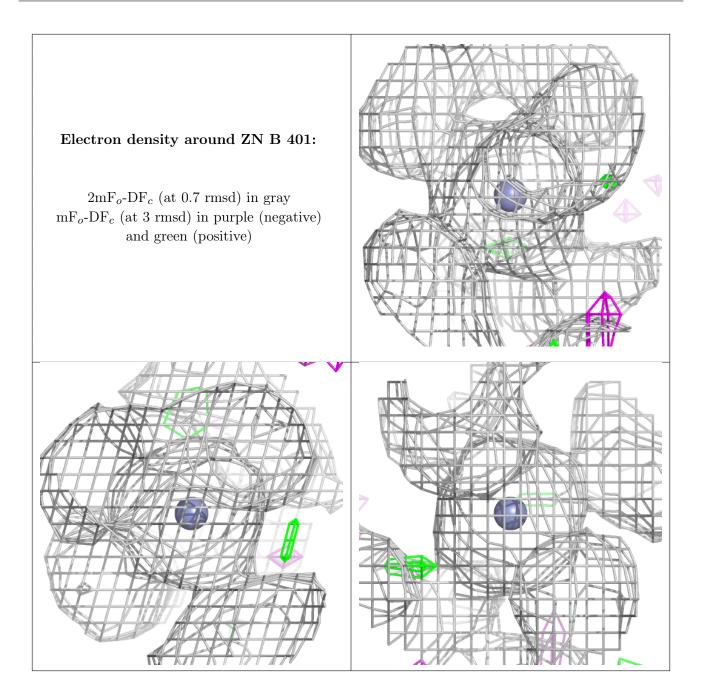




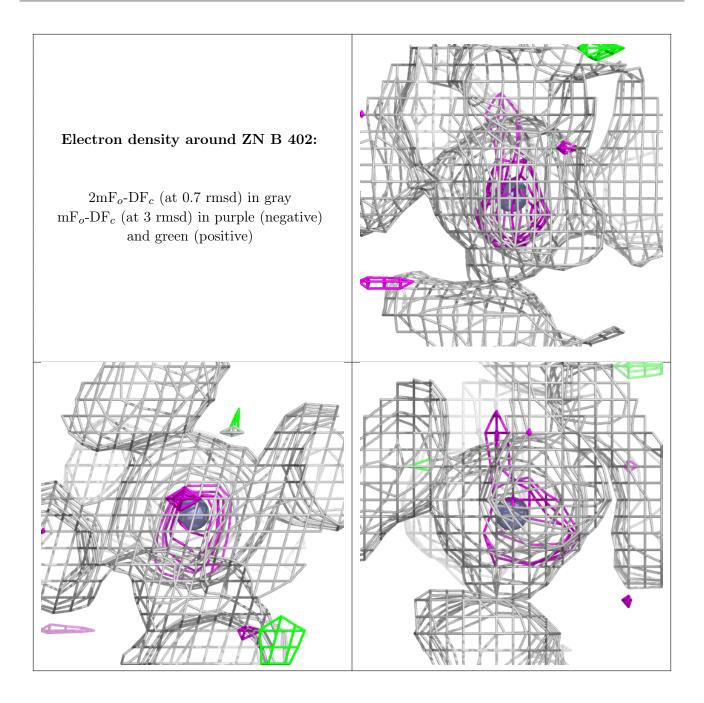




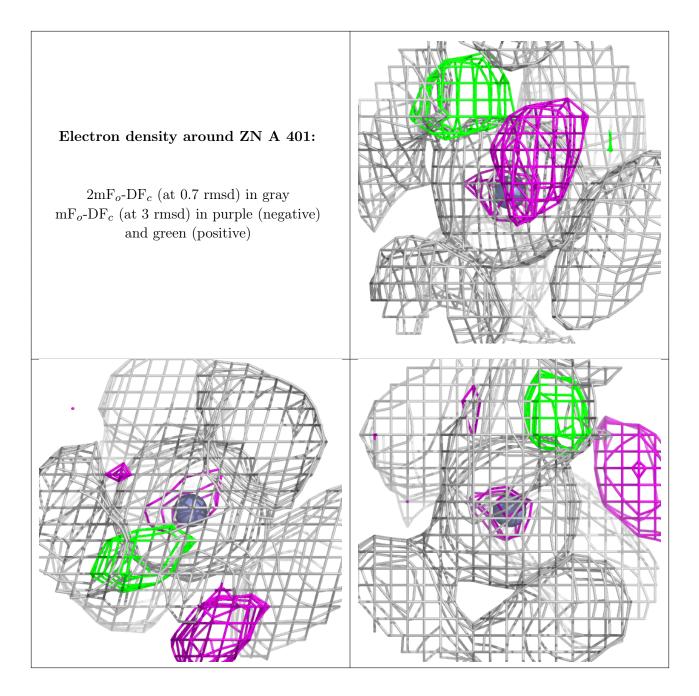












6.5 Other polymers (i)

There are no such residues in this entry.

