

wwPDB X-ray Structure Validation Summary Report (i)

Mar 7, 2023 - 03:17 pm GMT

PDB ID	:	8AHQ
Title	:	VirD/holo-ACP5b of Streptomyces virginiae complex
Authors	:	Collin, S.; Gruez, A.
Deposited on		
Resolution	:	2.10 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:

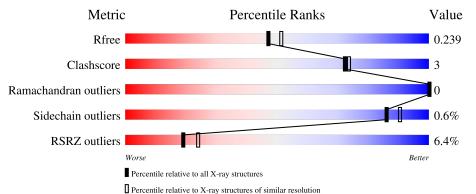
MolProbity		4 02b-467
5		
Mogul	:	1.8.4, CSD as 541 be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.32.1
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.32.1

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 2.10 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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	250	<u>6%</u> 88%	7% 5%
1	В	250	<u>6%</u> 88%	6% 6%
2	С	88	2% 84%	5% 11%
2	D	88	9%	9% 11%



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 5127 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 Enoyl-CoA hydratase.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace		
1	А	238	Total 1783	C 1107		O 330		Se 1	9	0	0
1	В	236	Total 1773	C 1099		O 329	${ m S} { m 3}$	Se 1	16	1	0

Chain	Residue	Modelled	Actual	Comment	Reference
А	-3	GLY	-	expression tag	UNP A4PHM7
А	-2	PRO	-	expression tag	UNP A4PHM7
А	-1	GLY	-	expression tag	UNP A4PHM7
А	0	SER	-	expression tag	UNP A4PHM7
А	1	VAL	-	expression tag	UNP A4PHM7
В	-3	GLY	-	expression tag	UNP A4PHM7
В	-2	PRO	-	expression tag	UNP A4PHM7
В	-1	GLY	-	expression tag	UNP A4PHM7
В	0	SER	-	expression tag	UNP A4PHM7
В	1	VAL	-	expression tag	UNP A4PHM7

There are 10 discrepancies between the modelled and reference sequences:

• Molecule 2 is a protein called Hybrid polyketide synthase-non ribosomal peptide synthetase.

\mathbf{N}	ſol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
	9	С	78	Total	С	Ν	0	S	0	0	0
	2	U	10	590	371	101	117	1	0	0	0
	2	Л	78	Total	С	Ν	0	S	0	0	0
	4	D	10	590	371	101	117	1	0	0	U

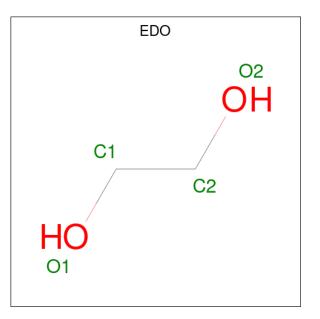
There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
С	6827	GLY	-	expression tag	UNP A4PHN0
С	6828	PRO	-	expression tag	UNP A4PHN0
	•			a r	1



Contentia	ica ji oni pi c	ero de page			
Chain	Residue	Modelled	Actual	Comment	Reference
С	6829	GLY	-	expression tag	UNP A4PHN0
С	6830	SER	-	expression tag	UNP A4PHN0
D	6827	GLY	-	expression tag	UNP A4PHN0
D	6828	PRO	-	expression tag	UNP A4PHN0
D	6829	GLY	-	expression tag	UNP A4PHN0
D	6830	SER	-	expression tag	UNP A4PHN0

Continued from previous page...



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

• Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

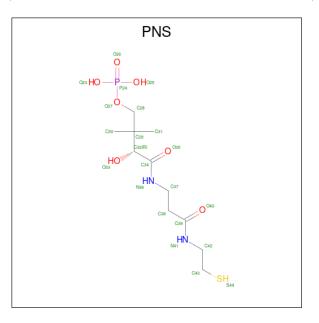


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total Cl 1 1	0	0
4	В	1	Total Cl 1 1	0	0

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

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

• Molecule 6 is 4'-PHOSPHOPANTETHEINE (three-letter code: PNS) (formula: $C_{11}H_{23}N_2O_7PS$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
6	С	1	Total	С	Ν	0	Р	S	5	0
0	U	1	21	11	2	6	1	1	5	0
6	Л	1	Total	С	Ν	Ο	Р	S	7	0
0		1	21	11	2	6	1	1	1	U

• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	118	Total O 118 118	0	0
7	С	41	Total O 41 41	0	0



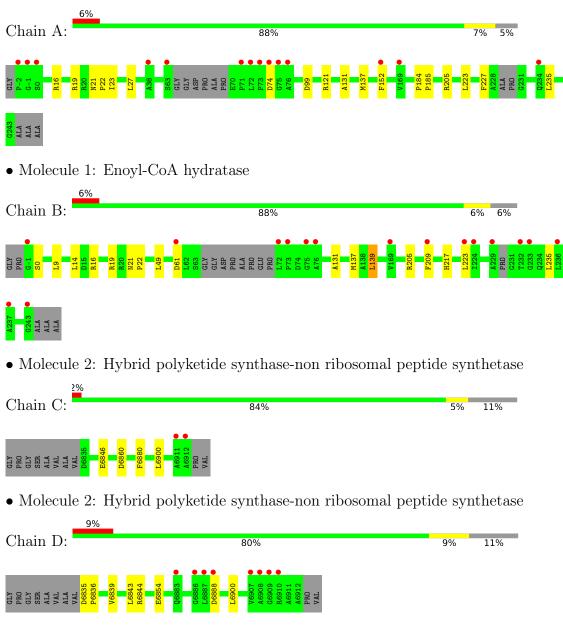
Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	В	140	Total O 140 140	0	0
7	D	23	TotalO2323	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: Enoyl-CoA hydratase



4 Data and refinement statistics (i)

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Depositor
Resolution (Å)	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor EDS
% Data completeness (in resolution range)	$\begin{array}{c} 100.0 \ (41.85\text{-}2.10) \\ 100.0 \ (41.85\text{-}2.00) \end{array}$	Depositor EDS
R _{merge} R _{sym}	0.12 (Not available)	Depositor Depositor
$< I/\sigma(I) > 1$	1.45 (at 2.00Å) REFMAC 5.8.0267	Xtriage Depositor
$\begin{array}{c} \text{Refinement program} \\ \text{R, } \text{R}_{free} \end{array}$	0.183 , 0.238 0.194 , 0.239	Depositor DCC
R_{free} test set	2346 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	40.8	Xtriage
Anisotropy	0.669	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.33, 41.8	EDS
L-test for $twinning^2$	$< L > = 0.51, < L^2 > = 0.34$	Xtriage
Estimated twinning fraction	$\begin{array}{c} 0.000 \; {\rm for}\; -1/3^{*}{\rm h} + 1/3^{*}{\rm k} + 4/3^{*}{\rm l}, -{\rm k}, 2/3^{*}{\rm h} + 1/\\ 3^{*}{\rm k} + 1/3^{*}{\rm l} \\ 0.000 \; {\rm for}\; -2/3^{*}{\rm h} - 1/3^{*}{\rm k} - 4/3^{*}{\rm l}, -1/3^{*}{\rm h} - 2/3^{*}{\rm k} +\\ 4/3^{*}{\rm l}, -1/3^{*}{\rm h} + 1/3^{*}{\rm k} + 1/3^{*}{\rm l} \\ 0.000 \; {\rm for}\; -{\rm h}, 1/3^{*}{\rm h} - 1/3^{*}{\rm k} - 4/3^{*}{\rm l}, -1/3^{*}{\rm h} - 2/3^{*}{\rm k} \\ + 1/3^{*}{\rm l} \\ 0.005 \; {\rm for}\; -1/3^{*}{\rm h} - 2/3^{*}{\rm k} + 4/3^{*}{\rm l}, -2/3^{*}{\rm h} - 1/3^{*}{\rm k} -\\ 4/3^{*}{\rm l}, 1/3^{*}{\rm h} - 1/3^{*}{\rm k} - 4/3^{*}{\rm l}, -2/3^{*}{\rm h} - 1/3^{*}{\rm k} \\ - 4/3^{*}{\rm l}, 1/3^{*}{\rm h} - 1/3^{*}{\rm k} - 4/3^{*}{\rm l}, 1/3^{*}{\rm h} + 2/3 \\ \cdot 1/3^{*}{\rm l} \\ 0.000 \; {\rm for}\; 1/3^{*}{\rm h} + 2/3^{*}{\rm k} - 4/3^{*}{\rm l}, -{\rm k}, -2/3^{*}{\rm h} - 1/3^{*} \\ \cdot 1/3^{*}{\rm l} \\ 0.007 \; {\rm for}\; {\rm h}, -{\rm h}, {\rm k}, -{\rm l} \\ \end{array}$	Xtriage
$\mathbf{F}_o, \mathbf{F}_c$ correlation	0.96	EDS
Total number of atoms	5127	wwPDB-VP
Average B, all atoms $(Å^2)$	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.09% 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.



 $^{^1 \}mathrm{Intensities}$ 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: CL, NA, PNS, EDO

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	0.82	0/1806	0.93	0/2443
1	В	0.86	0/1794	0.98	0/2426
2	С	0.80	0/601	0.94	0/818
2	D	0.80	0/601	0.85	0/818
All	All	0.83	0/4802	0.94	0/6505

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	1783	0	1817	11	2
1	В	1773	0	1805	14	1
2	С	590	0	568	2	0
2	D	590	0	568	5	0
3	А	20	0	30	0	0
3	В	4	0	6	0	0
4	А	1	0	0	0	0
4	В	1	0	0	0	0
5	А	1	0	0	0	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	С	21	0	21	0	0
6	D	21	0	20	0	0
7	А	118	0	0	0	0
7	В	140	0	0	0	0
7	С	41	0	0	0	0
7	D	23	0	0	0	0
All	All	5127	0	4835	32	2

Continued from previous page...

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 3.

The worst 5 of 32 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:B:16:ARG:H	1:B:21:ASN:HD21	1.23	0.87
1:A:137:MSE:HE2	1:A:223:LEU:HD22	1.67	0.74
1:B:137:MSE:HE2	1:B:223:LEU:HD22	1.74	0.70
1:B:16:ARG:H	1:B:21:ASN:ND2	1.92	0.68
1:B:0:SER:HA	1:B:16:ARG:HG3	1.87	0.57

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:A:74:ASP:OD2	1:B:217:HIS:NE2[1_554]	2.09	0.11
1:A:152:PHE:CE2	$1:A:205:ARG:CG[2_555]$	2.15	0.05

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	232/250~(93%)	229~(99%)	3(1%)	0	100	100
1	В	231/250 (92%)	226 (98%)	5 (2%)	0	100	100
2	С	76/88~(86%)	73~(96%)	3~(4%)	0	100	100
2	D	76/88~(86%)	74 (97%)	2(3%)	0	100	100
All	All	615/676~(91%)	602~(98%)	13~(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	176/179~(98%)	175~(99%)	1 (1%)	86 90
1	В	174/179~(97%)	173~(99%)	1 (1%)	86 90
2	С	60/66~(91%)	60 (100%)	0	100 100
2	D	60/66~(91%)	59~(98%)	1 (2%)	60 67
All	All	470/490~(96%)	467~(99%)	3~(1%)	86 90

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	227	PHE
1	В	139	LEU
2	D	6888	ASP

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such side chains are listed below:

Mol	Chain	Res	Type
1	А	21	ASN
1	А	37	GLN
1	В	21	ASN



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 11 ligands modelled in this entry, 3 are monoatomic - leaving 8 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	Mol Type Chain H		Dog	Res Link	Bo	ond leng	ths	В	ond ang	les	
	Type	Ullaili	nes	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	А	303	-	$3,\!3,\!3$	0.13	0	$2,\!2,\!2$	0.12	0	
6	PNS	D	7001	2	13,20,21	0.86	1 (7%)	$18,\!26,\!29$	2.79	5 (27%)	
3	EDO	А	302	-	3,3,3	0.07	0	$2,\!2,\!2$	0.18	0	
6	PNS	С	7001	2	13,20,21	0.21	0	$18,\!26,\!29$	0.51	0	
3	EDO	А	301	-	3,3,3	0.13	0	$2,\!2,\!2$	0.08	0	
3	EDO	В	301	-	3,3,3	0.34	0	2,2,2	0.38	0	
3	EDO	А	305	-	3,3,3	0.15	0	$2,\!2,\!2$	0.20	0	
3	EDO	А	304	-	$3,\!3,\!3$	0.10	0	$2,\!2,\!2$	0.27	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
3	EDO	А	303	-	-	1/1/1/1	-
6	PNS	D	7001	2	-	16/24/26/27	-



Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	А	302	-	-	1/1/1/1	-
6	PNS	С	7001	2	-	11/24/26/27	-
3	EDO	А	301	-	-	0/1/1/1	-
3	EDO	В	301	-	-	1/1/1/1	-
3	EDO	А	305	-	-	1/1/1/1	-
3	EDO	А	304	-	-	0/1/1/1	-

Continued from previous page...

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	7001	PNS	C34-N36	-2.79	1.27	1.33

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
6	D	7001	PNS	C38-C37-N36	-8.59	94.56	111.90
6	D	7001	PNS	C37-C38-C39	5.49	121.50	112.36
6	D	7001	PNS	C37-N36-C34	3.74	129.26	122.59
6	D	7001	PNS	C31-C29-C32	3.33	114.60	108.82
6	D	7001	PNS	C30-C29-C28	2.36	112.08	108.23

There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
6	С	7001	PNS	C28-C29-C32-O33
6	С	7001	PNS	C28-C29-C32-C34
6	С	7001	PNS	C30-C29-C32-O33
6	С	7001	PNS	C30-C29-C32-C34
6	С	7001	PNS	C32-C34-N36-C37

5 of 31 torsion outliers are listed below:

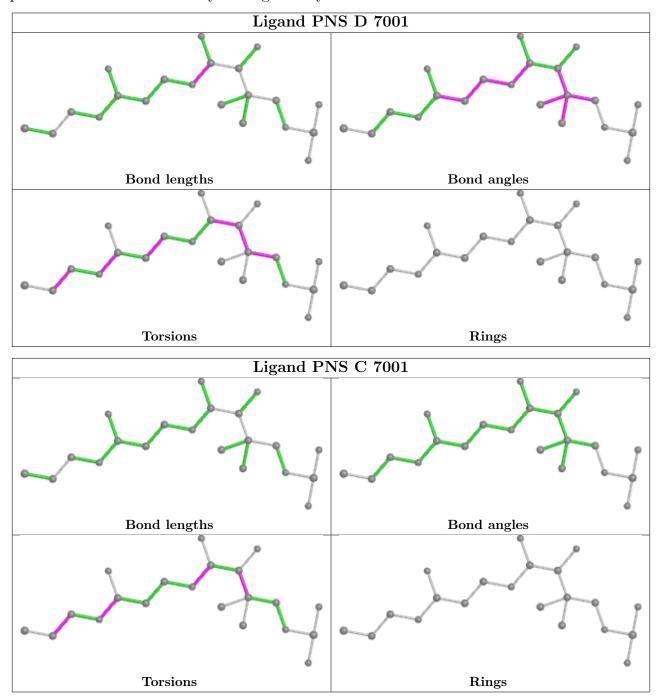
There are no ring outliers.

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 any Mogul-identified 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	237/250~(94%)	0.31	14 (5%) 22 27	24, 34, 59, 85	11 (4%)
1	В	235/250~(94%)	0.36	16 (6%) 17 21	24, 32, 62, 76	5 (2%)
2	С	78/88~(88%)	0.22	2 (2%) 56 61	28, 38, 54, 63	3 (3%)
2	D	78/88~(88%)	0.59	8 (10%) 6 8	31, 44, 75, 80	6 (7%)
All	All	628/676~(92%)	0.35	40 (6%) 19 24	24, 36, 62, 85	25 (3%)

The worst 5 of 40 RSRZ outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	RSRZ
1	В	75	GLY	4.6
1	В	209	PHE	4.4
2	D	6886	GLY	4.3
1	В	237	ALA	4.2
1	А	152	PHE	4.2

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.

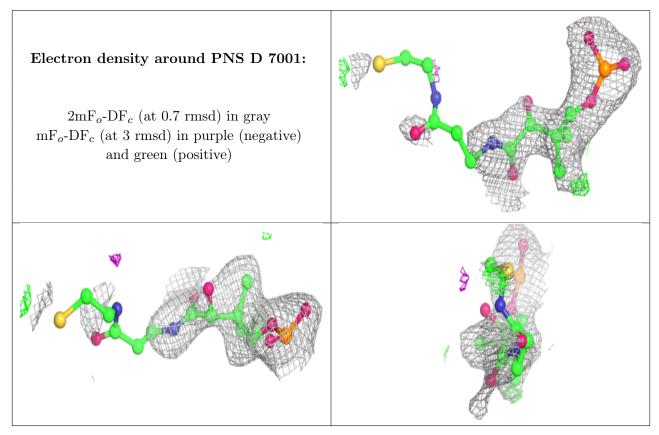
6.4 Ligands (i)

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.

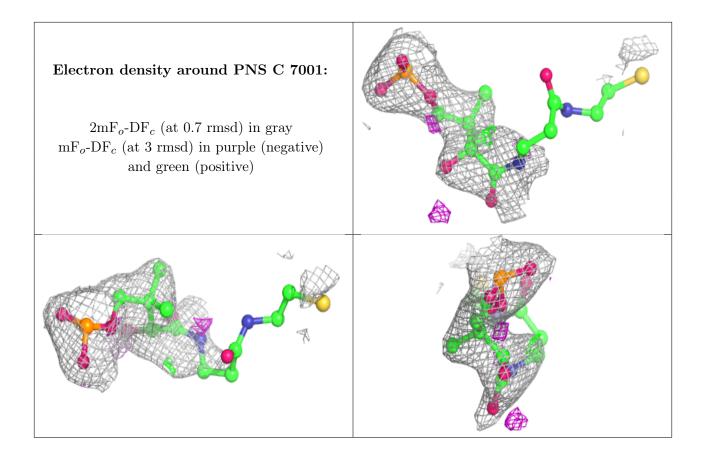


Mol	Type	Chain	Res	Atoms	RSCC	RSR	B -factors($Å^2$)	Q<0.9
3	EDO	А	305	4/4	0.81	0.21	$51,\!52,\!52,\!56$	0
3	EDO	В	301	4/4	0.81	0.16	42,44,46,46	0
3	EDO	А	304	4/4	0.83	0.19	54,57,59,60	0
3	EDO	А	302	4/4	0.88	0.26	60,64,64,64	0
6	PNS	D	7001	21/22	0.91	0.17	38,64,146,152	8
3	EDO	А	303	4/4	0.92	0.33	47,52,58,64	0
3	EDO	А	301	4/4	0.93	0.18	40,43,43,51	0
6	PNS	С	7001	21/22	0.94	0.17	30,55,164,190	7
4	CL	А	306	1/1	0.96	0.10	36,36,36,36	0
5	NA	А	307	1/1	0.96	0.18	41,41,41,41	0
4	CL	В	302	1/1	0.97	0.12	39,39,39,39	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.

