

wwPDB X-ray Structure Validation Summary Report (i)

May 22, 2020 – 12:14 am BST

PDB ID	:	5L9I
Title	:	Crystal structure of the periplasmic binding protein MotA in complex with
		DFG from A. tumefaciens B6
Authors	:	Marty, L.; Morera, S.
Deposited on	:	2016-06-10
$\operatorname{Resolution}$:	1.90 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 following versions of software and data (see references (1)) were used in the production of this report:

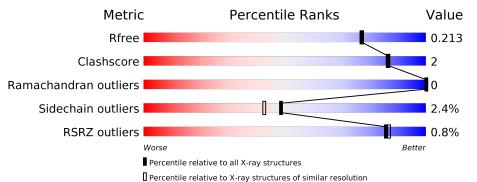
MolProbity		4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847(1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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 on 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	351	% 	5%	7%
1	В	351	% 	6% •	7%



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 5389 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 periplasmic binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Λ	326	Total	С	Ν	Ο	\mathbf{S}	0	0	0
	Л	520	2509	1594	424	482	9	0		
1	В	325	Total	С	Ν	Ο	S	0	1	0
	D	525	2502	1591	420	482	9	0		

Chain	Residue	Modelled	Actual	Comment	Reference
А	10	MET	-	initiating methionine	UNP A0A109C781
A	11	GLY	- expression tag		UNP A0A109C781
A	12	SER	_	expression tag	UNP A0A109C781
A	13	SER	-	expression tag	UNP A0A109C781
A	14	HIS	-	expression tag	UNP A0A109C781
A	15	HIS	-	expression tag	UNP A0A109C781
A	16	HIS	-	expression tag	UNP A0A109C781
A	17	HIS	-	expression tag	UNP A0A109C781
A	18	HIS	-	expression tag	UNP A0A109C781
A	19	HIS	-	expression tag	UNP A0A109C781
A	20	SER	-	expression tag	UNP A0A109C781
A	21	SER	_	expression tag	UNP A0A109C781
A	22	GLY	_	expression tag	UNP A0A109C781
A	23	LEU	_	expression tag	UNP A0A109C781
A	24	VAL	_	expression tag	UNP A0A109C781
A	25	PRO	_	expression tag	UNP A0A109C781
A	26	ARG	_	expression tag	UNP A0A109C781
A	27	GLY	-	expression tag	UNP A0A109C781
А	28	SER	_	expression tag	UNP A0A109C781
A	29	HIS	_	expression tag	UNP A0A109C781
A	30	MET	-	expression tag	UNP A0A109C781
A	355	HIS	-	expression tag	UNP A0A109C781
A	356	HIS	-	expression tag	UNP A0A109C781
A	357	HIS	_	expression tag	UNP A0A109C781
A	358	HIS	-	expression tag	UNP A0A109C781

There are 54 discrepancies between the modelled and reference sequences:

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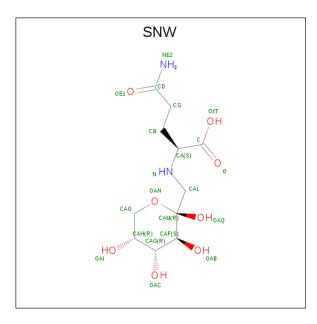


Chain	Residue	Modelled	Actual	Comment	Reference
A	359	HIS	-	expression tag	UNP A0A109C781
A	360	HIS	-	expression tag	UNP A0A109C781
В	10	MET	-	initiating methionine	UNP A0A109C781
В	11	GLY	-	expression tag	UNP A0A109C781
В	12	SER	-	expression tag	UNP A0A109C781
В	13	SER	-	expression tag	UNP A0A109C781
В	14	HIS	-	expression tag	UNP A0A109C781
В	15	HIS	-	expression tag	UNP A0A109C781
В	16	HIS	-	expression tag	UNP A0A109C781
В	17	HIS	-	expression tag	UNP A0A109C781
В	18	HIS	-	expression tag	UNP A0A109C781
В	19	HIS	-	expression tag	UNP A0A109C781
В	20	SER	-	expression tag	UNP A0A109C781
В	21	SER	-	expression tag	UNP A0A109C781
В	22	GLY	-	expression tag	UNP A0A109C781
В	23	LEU	-	expression tag	UNP A0A109C781
В	24	VAL	-	expression tag	UNP A0A109C781
В	25	PRO	-	expression tag	UNP A0A109C781
В	26	ARG	-	expression tag	UNP A0A109C781
В	27	GLY	-	expression tag	UNP A0A109C781
В	28	SER	-	expression tag	UNP A0A109C781
В	29	HIS	-	expression tag	UNP A0A109C781
В	30	MET	-	expression tag	UNP A0A109C781
В	355	HIS	-	expression tag	UNP A0A109C781
В	356	HIS	-	expression tag	UNP A0A109C781
В	357	HIS	-	expression tag	UNP A0A109C781
В	358	HIS	-	expression tag	UNP A0A109C781
В	359	HIS	-	expression tag	UNP A0A109C781
В	360	HIS	-	expression tag	UNP A0A109C781

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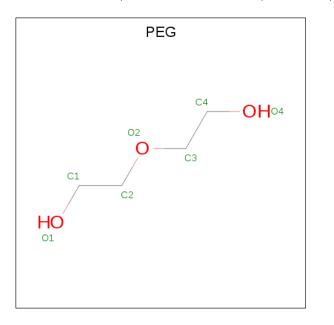
• Molecule 2 is Deoxyfructosylglutamine (three-letter code: SNW) (formula: $C_{11}H_{20}N_2O_8$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	Δ	1	Total	С	Ν	Ο	0	0	
	Л	T	21	11	2	8	0		
9	В	1	Total	С	Ν	Ο	0	0	
	D	T	21	11	2	8	0	0	

• Molecule 3 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 7 4 3 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 7 4 3 \end{array}$	0	0

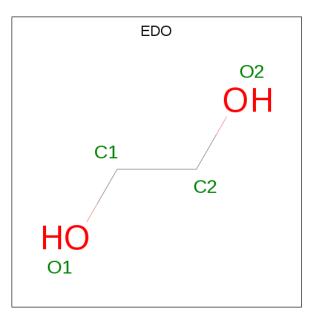
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	В	1	Total 7	С 4	O 3	0	0

• Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
4	А	1	TotalCO422	0	0
4	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 4 2 2 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

• Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	Total Ca 1 1	0	0
5	А	2	Total Ca 2 2	0	0



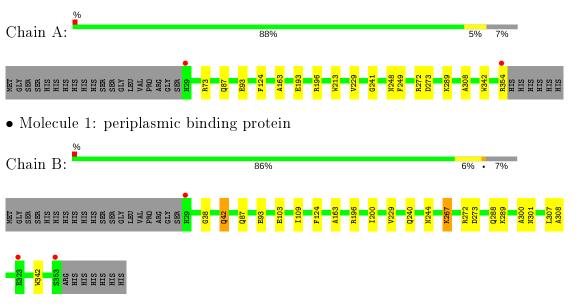
• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	152	Total O 152 152	0	0
6	В	136	Total O 136 136	0	0



3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: periplasmic binding protein



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41	Depositor
Cell constants	71.39Å 71.39 Å 134.06 Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.00 - 1.90	Depositor
Resolution (A)	48.87 - 1.90	EDS
% Data completeness	99.8 (38.00-1.90)	Depositor
(in resolution range)	$99.7 \ (48.87 - 1.90)$	EDS
R _{merge}	(Not available)	Depositor
R_{sym}	0.06	Depositor
$< I/\sigma(I) > 1$	$1.06 (at 1.90 \text{\AA})$	Xtriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.177 , 0.206	Depositor
n, n <i>free</i>	0.184 , 0.213	DCC
R_{free} test set	2631 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	41.1	Xtriage
Anisotropy	0.180	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.31, 34.6	EDS
L-test for twinning ²	$< L > = 0.45, < L^2 > = 0.28$	Xtriage
Estimated twinning fraction	0.118 for h,-k,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5389	wwPDB-VP
Average B, all atoms $(Å^2)$	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.99% 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: SNW, CA, PEG, 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		
		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.50	0/2572	0.60	0/3497	
1	В	0.50	0/2568	0.61	0/3493	
All	All	0.50	0/5140	0.61	0/6990	

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	2509	0	2428	9	0
1	В	2502	0	2422	12	0
2	А	21	0	0	0	0
2	В	21	0	0	0	0
3	А	7	0	10	1	0
3	В	14	0	20	0	0
4	А	12	0	18	3	0
4	В	12	0	18	1	0
5	A	2	0	0	0	0
5	В	1	0	0	0	0
6	A	152	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	В	136	0	0	0	0
All	All	5389	0	4916	21	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 2.

The worst 5 of 21 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:A:241:GLY:HA2	3:A:402:PEG:H41	1.59	0.84
1:B:288:GLN:NE2	1:B:301:ASN:H	1.96	0.63
1:B:288:GLN:HE21	1:B:301:ASN:H	1.44	0.63
1:B:288:GLN:HE22	1:B:300:ALA:H	1.48	0.62
1:B:103:GLU:HG2	1:B:267:LYS:HA	1.84	0.58

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	Percent	iles
1	А	324/351~(92%)	320~(99%)	4 (1%)	0	100 1	.00
1	В	324/351~(92%)	318 (98%)	6 (2%)	0	100 1	.00
All	All	648/702~(92%)	638~(98%)	10 (2%)	0	100 1	.00

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	252/274~(92%)	247 (98%)	5(2%)	55 51
1	В	252/274~(92%)	245~(97%)	7(3%)	43 36
All	All	504/548~(92%)	492 (98%)	12 (2%)	49 43

5 of 12 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	42	GLN
1	В	87	GLN
1	В	272	ARG
1	А	273	ASP
1	В	267	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 11 such sidechains are listed below:

Mol	Chain	Res	Type
1	А	334	ASN
1	А	349	ASN
1	В	244	ASN
1	А	244	ASN
1	В	45	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 carbohydrates in this entry.



5.6 Ligand geometry (i)

Of 14 ligands modelled in this entry, 3 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
	Type	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	PEG	В	403	-	$6,\!6,\!6$	0.23	0	5, 5, 5	0.19	0
3	PEG	В	402	-	$6,\!6,\!6$	0.24	0	5, 5, 5	0.22	0
3	PEG	А	402	-	$6,\!6,\!6$	0.28	0	5, 5, 5	0.38	0
4	EDO	В	406	-	$3,\!3,\!3$	0.54	0	2,2,2	0.25	0
4	EDO	А	405	-	3,3,3	0.64	0	2,2,2	0.24	0
4	EDO	А	404	-	$3,\!3,\!3$	0.59	0	2,2,2	0.28	0
4	EDO	В	404	-	$3,\!3,\!3$	0.58	0	2,2,2	0.28	0
2	SNW	А	401	5	$17,\!21,\!21$	2.85	5 (29%)	$22,\!30,\!30$	2.19	6(27%)
2	SNW	В	401	-	$17,\!21,\!21$	2.87	5 (29%)	$22,\!30,\!30$	1.89	4 (18%)
4	EDO	А	403	-	$3,\!3,\!3$	0.44	0	2,2,2	0.42	0
4	EDO	В	405	_	3,3,3	0.56	0	2,2,2	0.34	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	\mathbf{Link}	Chirals	Torsions	Rings
3	PEG	В	403	-	-	2/4/4/4	-
3	PEG	В	402	-	-	3/4/4/4	-
3	PEG	А	402	-	-	1/4/4/4	-
4	EDO	В	406	-	-	0/1/1/1	-
4	EDO	А	405	-	-	1/1/1/1	-
4	EDO	А	404	-	-	0/1/1/1	-
4	EDO	В	404	-	-	0/1/1/1	-
2	SNW	А	401	5	-	3/11/35/35	0/1/1/1
2	SNW	В	401	-	-	2/11/35/35	0/1/1/1
4	EDO	А	403	-	-	1/1/1/1	-
4	EDO	В	405	-	-	1/1/1/1	-



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	В	401	SNW	CAH-CAG	-7.35	1.41	1.52
2	А	401	SNW	CAH-CAG	-7.24	1.41	1.52
2	В	401	SNW	OAN-CAM	-5.05	1.38	1.42
2	В	401	SNW	OAQ-CAM	-4.79	1.32	1.40
2	А	401	SNW	OAQ-CAM	-4.68	1.32	1.40

The worst 5 of 10 bond length outliers are listed below:

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	А	401	SNW	CAH-CAG-CAF	6.05	117.25	110.48
2	В	401	SNW	CAH-CAG-CAF	5.12	116.21	110.48
2	А	401	SNW	CAO-CAH-CAG	4.23	114.86	109.67
2	В	401	SNW	OAI-CAH-CAO	-3.91	101.16	109.15
2	В	401	SNW	CAO-CAH-CAG	3.56	114.05	109.67

There are no chirality outliers.

5 of 14 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	401	SNW	C-CA-N-CAL
2	В	401	SNW	C-CA-N-CAL
3	В	402	PEG	O1-C1-C2-O2
4	А	405	EDO	O1-C1-C2-O2
4	А	403	EDO	O1-C1-C2-O2

There are no ring outliers.

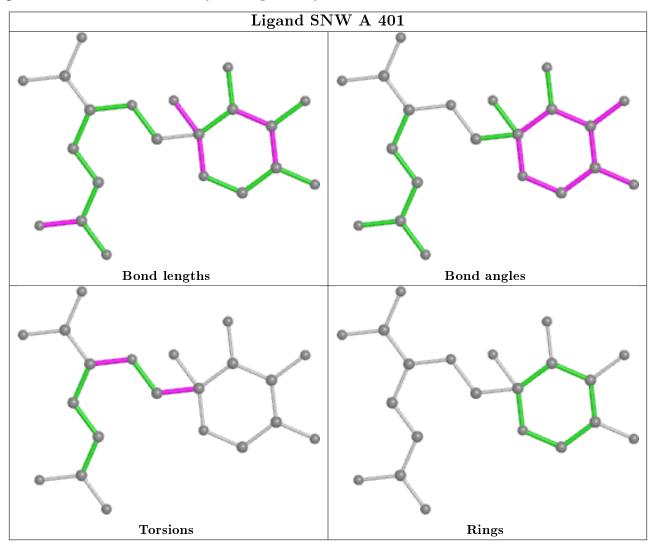
3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	402	PEG	1	0
4	А	403	EDO	3	0
4	В	405	EDO	1	0

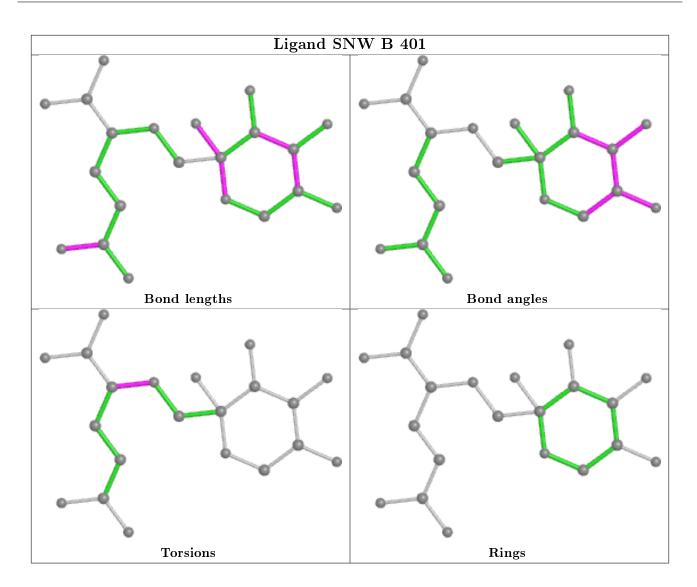
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 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	<RSRZ $>$	$\# RSRZ {>}2$	$OWAB(A^2)$	$\mathbf{Q}{<}0.9$
1	А	326/351~(92%)	-0.23	2 (0%) 89 90	30, 50, 82, 113	0
1	В	325/351~(92%)	-0.24	3 (0%) 84 85	30, 48, 75, 115	0
All	All	651/702~(92%)	-0.23	5 (0%) 86 87	30, 49, 79, 115	0

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	354	ARG	3.4
1	А	29	HIS	2.7
1	В	29	HIS	2.4
1	В	323	GLU	2.2
1	В	353	SER	2.0

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 carbohydrates in this entry.

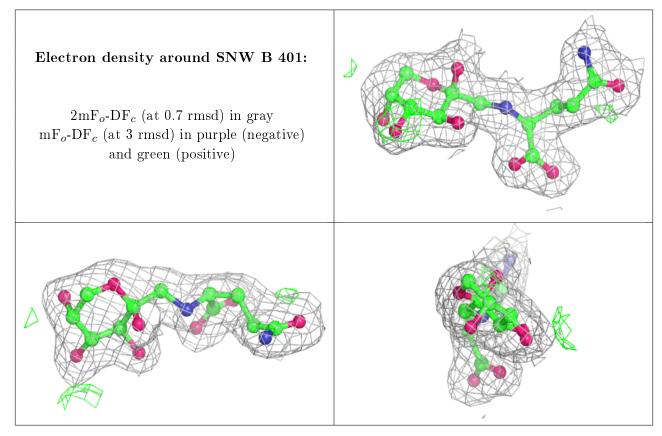
6.4 Ligands (i)

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

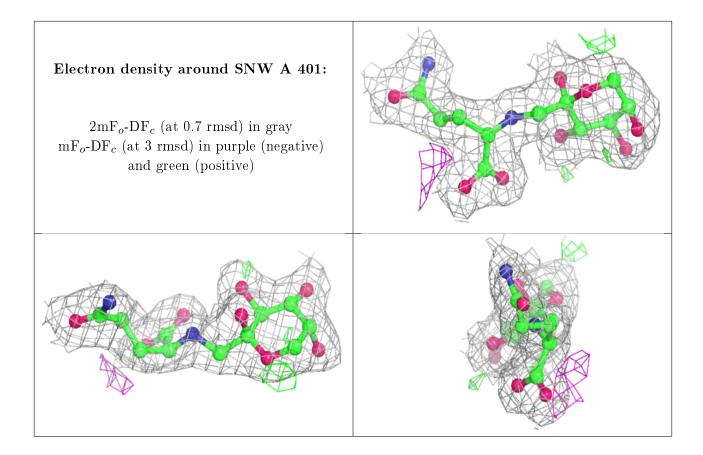


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
4	EDO	А	405	4/4	0.61	0.24	$64,\!65,\!68,\!69$	0
4	EDO	В	404	4/4	0.66	0.32	$67,\!68,\!68,\!69$	0
3	PEG	В	403	7/7	0.74	0.16	$64,\!66,\!69,\!69$	0
3	PEG	А	402	7/7	0.74	0.26	$40,\!57,\!70,\!71$	0
3	PEG	В	402	7/7	0.78	0.16	$44,\!56,\!65,\!68$	0
4	EDO	В	405	4/4	0.79	0.32	75, 76, 76, 77	0
4	EDO	В	406	4/4	0.82	0.20	59,60,62,63	0
4	EDO	А	404	4/4	0.87	0.11	81,82,82,82	0
4	EDO	А	403	4/4	0.94	0.24	$38,\!40,\!43,\!47$	0
2	SNW	В	401	21/21	0.96	0.08	$31,\!37,\!48,\!53$	0
2	SNW	А	401	21/21	0.97	0.07	$33,\!39,\!53,\!57$	0
5	CA	В	407	1/1	0.98	0.05	41,41,41,41	0
5	CA	А	406	1/1	0.98	0.24	$57,\!57,\!57,\!57$	0
5	CA	А	407	1/1	0.99	0.03	41,41,41,41	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.

