

wwPDB X-ray Structure Validation Summary Report (i)

Oct 20, 2020 - 06:10 PM BST

PDB ID	:	6XV1
Title	:	Human Sirt6 13-308 in complex with ADP-ribose and the activator MDL-801
Authors	:	You, W.; Steegborn, C.
Deposited on		
Resolution	:	1.95 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:

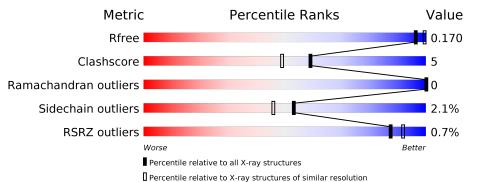
MolProbity Mogul		4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		1.13
EDŚ	:	2.14.6
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.14.6

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 1.95 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	2580 (1.96-1.96)
Clashscore	141614	2705(1.96-1.96)
Ramachandran outliers	138981	2678(1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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	302	79%	13%	• 7	7%
1	В	302	% 	15%	• 8	%



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 4595 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	Λ	282	Total	С	Ν	Ο	S	0	0	0
	A	202	2202	1386	404	401	11			
1	р	277	Total	С	Ν	Ο	S	0	0	0
	D	211	2158	1358	396	393	11			

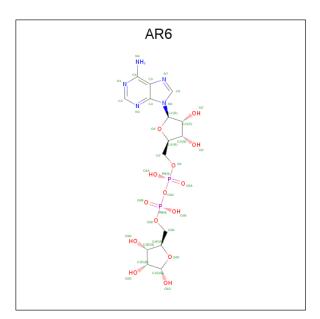
• Molecule 1 is a protein called NAD-dependent protein deacetylase sirtuin-6.

Chain	Residue	Modelled	Actual	Comment	Reference
А	7	GLY	-	expression tag	UNP Q8N6T7
А	8	ILE	-	expression tag	UNP Q8N6T7
А	9	ASP	-	expression tag	UNP Q8N6T7
A	10	PRO	-	expression tag	UNP Q8N6T7
A	11	PHE	-	expression tag	UNP Q8N6T7
A	12	THR	-	expression tag	UNP Q8N6T7
В	7	GLY	-	expression tag	UNP Q8N6T7
В	8	ILE	-	expression tag	UNP Q8N6T7
В	9	ASP	-	expression tag	UNP Q8N6T7
В	10	PRO	-	expression tag	UNP Q8N6T7
В	11	PHE	-	expression tag	UNP Q8N6T7
В	12	THR	_	expression tag	UNP Q8N6T7

There are 12 discrepancies between the modelled and reference sequences:

• Molecule 2 is [(2R,3S,4R,5R)-5-(6-AMINOPURIN-9-YL)-3,4-DIHYDROXY-OXOLAN-2-YL]METHYL [HYDROXY-[[(2R,3S,4R,5S)-3,4,5-TRIHYDROXYOXOLAN-2-YL]ME THOXY]PHOSPHORYL] HYDROGEN PHOSPHATE (three-letter code: AR6) (formula: C₁₅H₂₃N₅O₁₄P₂).





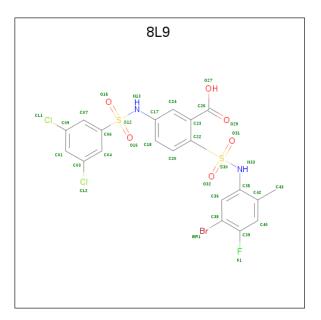
Mol	Chain	Residues		Ate	oms			ZeroOcc	AltConf	
0	Δ	1	Total	С	Ν	Ο	Р	0	0	
	A	1	36	15	5	14	2	0	0	
0	р	1	Total	С	Ν	Ο	Р	0	0	
	В	в 1	36	15	5	14	2	0	0	

• Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

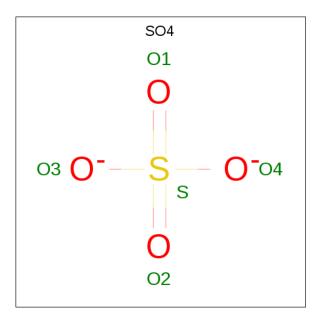
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	1	Total Zn 1 1	0	0
3	А	1	Total Zn 1 1	0	0

• Molecule 4 is 5-[[3,5-bis(chloranyl)phenyl]sulfonylamino]-2-[(5-bromanyl-4-fluoranyl-2-meth yl-phenyl)sulfamoyl]benzoic acid (three-letter code: 8L9) (formula: C₂₀H₁₄BrCl₂FN₂O₆S₂) (labeled as "Ligand of Interest" by author).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf				
4	Δ	1	Total	Br	С	Cl	F	Ν	Ο	S	0	0
4	A	L	34	1	20	2	1	2	6	2		0



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

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

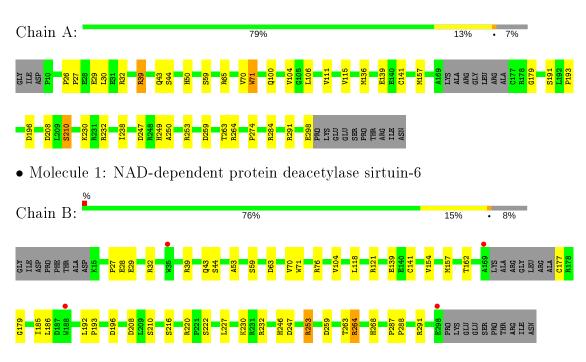
• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	56	$\begin{array}{cc} {\rm Total} & {\rm O} \\ 56 & 56 \end{array}$	0	0
6	В	31	Total O 31 31	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: NAD-dependent protein deacetylase sirtuin-6



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 63	Depositor
Cell constants	91.17Å 91.17Å 143.58Å	Deperitor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	45.59 - 1.95	Depositor
Resolution (A)	45.59 - 1.95	EDS
% Data completeness	99.9 (45.59-1.95)	Depositor
(in resolution range)	$99.9 \ (45.59 - 1.95)$	EDS
R _{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.36 (at 1.95 Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
D D	0.150 , 0.165	Depositor
R, R_{free}	0.156 , 0.170	DCC
R_{free} test set	2101 reflections (4.27%)	wwPDB-VP
Wilson B-factor $(Å^2)$	32.4	Xtriage
Anisotropy	0.364	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35 , 25.9	EDS
L-test for twinning ²	$< L >=0.40, < L^2>=0.23$	Xtriage
Estimated twinning fraction	0.439 for h,-h-k,-l	Xtriage
Reported twinning fraction	0.450 for H, K, L	Depositor
Reported twinning fraction	0.550 for -K, -H, -L	Depositor
Outliers	0 of 49197 reflections	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	4595	wwPDB-VP
Average B, all atoms $(Å^2)$	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.16% 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: ZN, $8L9,\,AR6,\,SO4$

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).

Mal	Mal Chain		nd lengths	Bond angles	
Mol	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	1.06	2/2251~(0.1%)	1.16	7/3053~(0.2%)
1	В	0.95	0/2205	1.12	6/2991~(0.2%)
All	All	1.01	2/4456~(0.0%)	1.14	13/6044~(0.2%)

All (2) bond length outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	А	139	GLU	CD-OE2	-5.52	1.19	1.25
1	А	139	GLU	CD-OE1	-5.25	1.19	1.25

The worst 5 of 13 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\mathbf{Ideal}(^{o})$
1	А	65	ARG	NE-CZ-NH1	7.68	124.14	120.30
1	В	76	ARG	NE-CZ-NH2	6.31	123.45	120.30
1	В	264	ARG	NE-CZ-NH2	6.29	123.44	120.30
1	А	264	ARG	NE-CZ-NH2	-6.16	117.22	120.30
1	В	121	ARG	NE-CZ-NH2	-5.80	117.40	120.30

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.



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	2202	0	2215	19	0
1	В	2158	0	2171	22	0
2	А	36	0	21	0	0
2	В	36	0	20	0	0
3	А	1	0	0	0	0
3	В	1	0	0	0	0
4	А	34	0	0	2	0
5	А	25	0	0	0	0
5	В	15	0	0	0	0
6	А	56	0	0	0	0
6	В	31	0	0	1	0
All	All	4595	0	4427	42	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 42 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:216:SER:OG	6:B:501:HOH:O	2.06	0.71
1:A:39:ARG:O	1:A:43:GLN:HG3	2.00	0.62
1:B:247:ASP:O	1:B:253:ARG:HD3	2.01	0.59
1:A:115:VAL:O	1:A:136:MET:HG2	2.03	0.58
1:A:50:HIS:HE1	1:A:210:SER:OG	1.89	0.55

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	278/302~(92%)	272 (98%)	6 (2%)	0	100	100
1	В	273/302~(90%)	268~(98%)	5 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	551/604~(91%)	540~(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	239/256~(93%)	234~(98%)	5(2%)	53 46
1	В	234/256~(91%)	229~(98%)	5(2%)	53 46
All	All	473/512~(92%)	463~(98%)	10~(2%)	53 46

 $5~{\rm of}~10$ residues with a non-rotameric side chain are listed below:

Mol	Chain	\mathbf{Res}	Type
1	А	298	GLU
1	В	59	SER
1	В	210	SER
1	А	210	SER
1	В	177	CYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	\mathbf{Res}	Type
1	А	50	HIS
1	А	249	HIS
1	В	206	ASN
1	В	246	HIS
1	В	268	HIS

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 13 ligands modelled in this entry, 2 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	True	Chain	Res	Link	B	ond leng	gths	B	ond ang	gles
	Type	Unam	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
5	SO4	В	403	-	$4,\!4,\!4$	0.44	0	$6,\!6,\!6$	0.39	0
5	SO4	А	405	-	$4,\!4,\!4$	0.21	0	$6,\!6,\!6$	0.31	0
5	SO4	В	405	-	$4,\!4,\!4$	0.33	0	$6,\!6,\!6$	0.06	0
5	SO4	А	404	-	$4,\!4,\!4$	0.34	0	$6,\!6,\!6$	0.25	0
4	8L9	А	403	_	$34,\!36,\!36$	2.61	11 (32%)	$50,\!55,\!55$	4.33	20 (40%)
2	AR6	А	401	-	$34,\!39,\!39$	1.03	2(5%)	$40,\!60,\!60$	1.29	5(12%)
5	SO4	А	407	-	$4,\!4,\!4$	0.35	0	$6,\!6,\!6$	0.30	0
2	AR6	В	401	-	$34,\!39,\!39$	0.73	1 (2%)	$40,\!60,\!60$	1.20	5 (12%)
5	SO4	В	404	-	$4,\!4,\!4$	0.28	0	$6,\!6,\!6$	0.36	0
5	SO4	А	408	-	$4,\!4,\!4$	0.48	0	$6,\!6,\!6$	0.35	0
5	SO4	А	406	-	$4,\!4,\!4$	0.21	0	$6,\!6,\!6$	0.25	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	\mathbf{Res}	\mathbf{Link}	Chirals	Torsions	Rings
4	8L9	А	403	-	-	9/22/26/26	0/3/3/3
2	AR6	В	401	-	-	2/18/54/54	0/4/4/4
2	AR6	А	401	-	-	2/18/54/54	0/4/4/4



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
4	А	403	8L9	C23-C26	7.32	1.54	1.47
4	А	403	8L9	C22-S30	6.60	1.87	1.77
4	А	403	8L9	S12-N13	5.67	1.73	1.63
4	А	403	8L9	O15-S12	4.06	1.48	1.43
4	А	403	8L9	C06-S12	3.80	1.82	1.76

The worst 5 of 14 bond length outliers are listed below:

The worst 5 of 30 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
4	А	403	8L9	O32-S30-O31	-15.25	100.81	119.55
4	А	403	8L9	O16-S12-O15	-14.54	101.68	119.55
4	А	403	8L9	C22-S30-N33	-12.37	92.82	107.27
4	А	403	8L9	O32-S30-C22	10.10	124.27	107.66
4	А	403	8L9	C42-C35-N33	-5.66	114.52	120.38

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	А	403	8L9	C17-N13-S12-C06
2	А	401	AR6	C5D-O5D-PB-O2B
2	В	401	AR6	C5D-O5D-PB-O2B
4	А	403	8L9	C35-N33-S30-O31
4	А	403	8L9	C35-N33-S30-C22

There are no ring outliers.

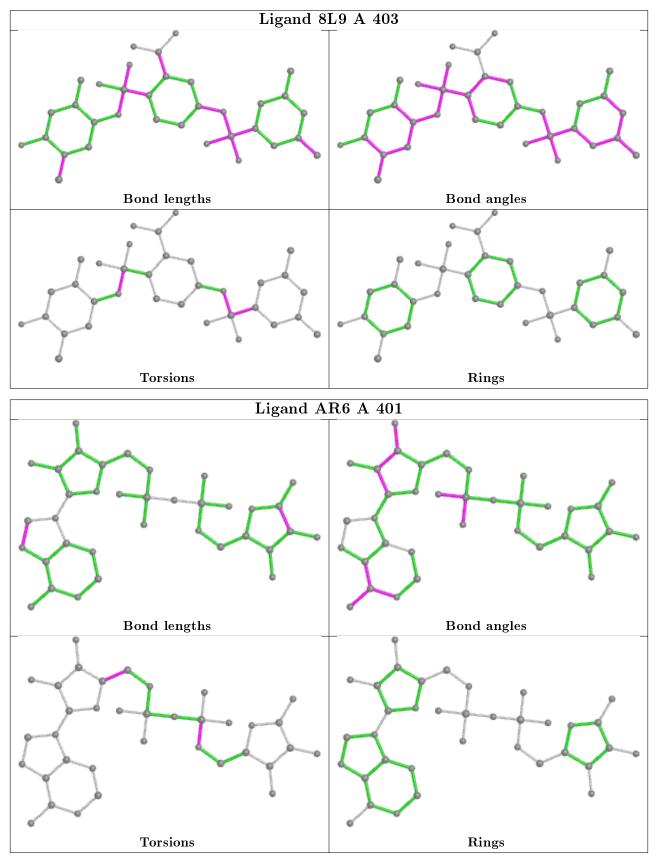
1 monomer is involved in 2 short contacts:

Mol	Chain	\mathbf{Res}	Type	Clashes	Symm-Clashes
4	А	403	8L9	2	0

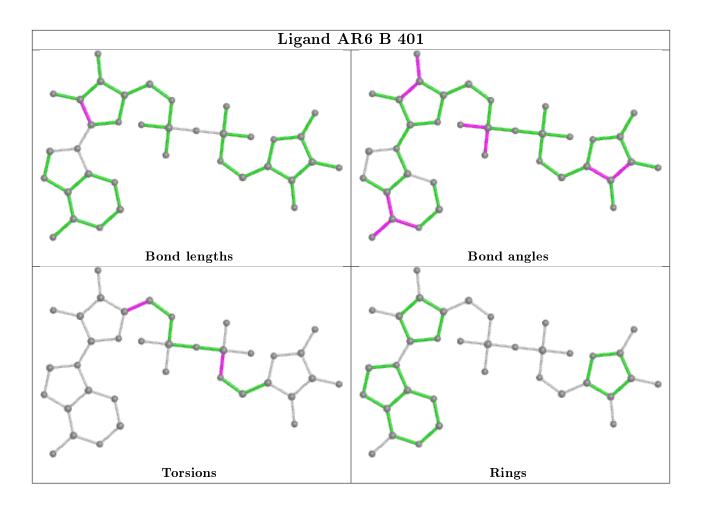
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 $>$	$\# RSRZ {>}2$	$\mathbf{OWAB}(\mathbf{A}^2)$	Q<0.9
1	А	282/302~(93%)	-0.24	0 100 100	22, 33, 57, 80	0
1	В	277/302~(91%)	-0.15	4 (1%) 75 82	23, 40, 67, 83	0
All	All	559/604~(92%)	-0.20	4 (0%) 87 92	22, 36, 64, 83	0

All (4) RSRZ outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	RSRZ
1	В	188	TRP	2.8
1	В	169	ALA	2.6
1	В	35	TRP	2.4
1	В	298	GLU	2.2

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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
5	SO4	А	404	5/5	0.92	0.17	$53,\!59,\!78,\!81$	0

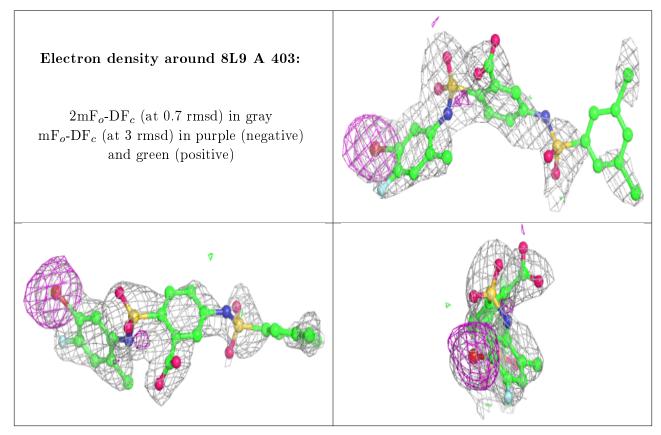
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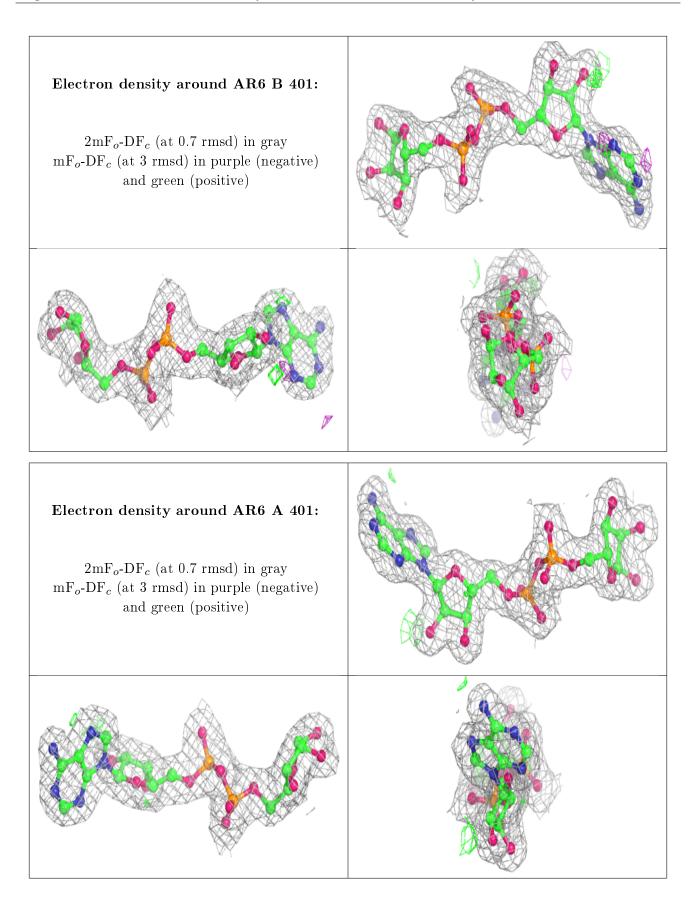
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$Q{<}0.9$
4	8L9	А	403	34/34	0.95	0.22	$54,\!88,\!127,\!141$	0
5	SO4	А	407	5/5	0.96	0.10	$52,\!55,\!58,\!62$	0
5	SO4	А	406	5/5	0.96	0.13	$48,\!64,\!69,\!70$	0
5	SO4	В	404	5/5	0.97	0.09	$55,\!63,\!64,\!66$	0
5	SO4	В	405	5/5	0.98	0.12	$67,\!74,\!80,\!84$	0
3	ZN	В	402	1/1	0.98	0.11	$50,\!50,\!50,\!50$	0
2	AR6	В	401	36/36	0.98	0.09	$26,\!32,\!39,\!44$	0
5	SO4	В	403	5/5	0.98	0.09	$45,\!47,\!53,\!55$	0
5	SO4	А	408	5/5	0.98	0.07	44,46,48,50	0
5	SO4	А	405	5/5	0.98	0.10	$48,\!57,\!63,\!66$	0
3	ZN	А	402	1/1	0.99	0.12	43,43,43,43	0
2	AR6	А	401	36/36	0.99	0.08	$19,\!25,\!30,\!32$	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.

