Full wwPDB X-ray Structure Validation Report (i)

Sep 9, 2025 – 01:23 AM JST

PDB ID	:	7CL1 / pdb_00007cl1
Title	:	Human SIRT6 in complex with allosteric activator MDL-801 (3.2A)
Authors	:	Song, K.; Zhang, J.
Deposited on	:	2020-07-20
Resolution	:	3.20 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 (i)) were used in the production of this report:

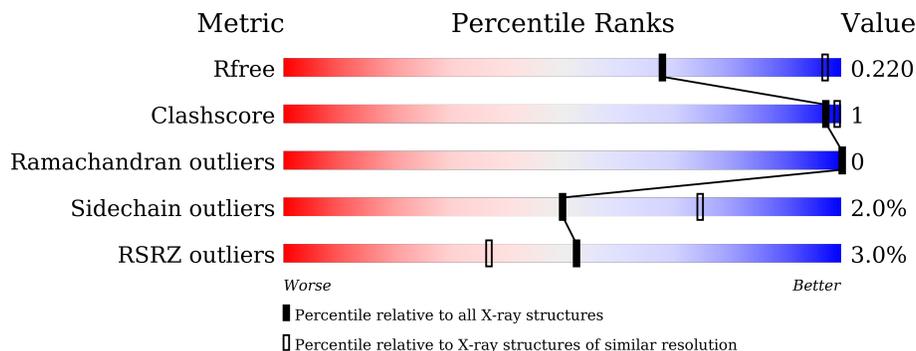|		
MolProbity	:	4-5-2 with Phenix2.0rc1
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.006 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.45.1

1 Overall quality at a glance ⓘ

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

The reported resolution of this entry is 3.20 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	Percentile Ranks	Value
Rfree		0.220
Clashscore		1
Ramachandran outliers		0
Sidechain outliers		2.0%
RSRZ outliers		3.0%

Worse — Better

▮ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	1370 (3.20-3.20)
Clashscore	180529	1497 (3.20-3.20)
Ramachandran outliers	177936	1479 (3.20-3.20)
Sidechain outliers	177891	1478 (3.20-3.20)
RSRZ outliers	164620	1371 (3.20-3.20)

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	A	355	2% 80% • 17%
2	C	9	22% 89% 11%

2 Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 2528 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 NAD-dependent protein deacetylase sirtuin-6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	296	Total	C	N	O	S	0	0	0
			2308	1451	426	420	11			

- Molecule 2 is a protein called THR-ALA-ARG-LYS-SER-THR-GLY-GLY.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	C	8	Total	C	N	O	0	0	0
			53	30	12	11			

- Molecule 3 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]METHOXY]PHOSPHORYL] HYDROGEN PHOSPHATE (CCD ID: AR6) (formula: $C_{15}H_{23}N_5O_{14}P_2$).
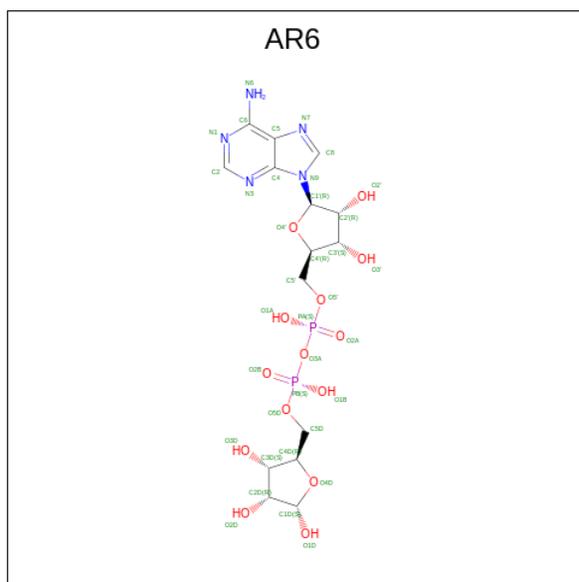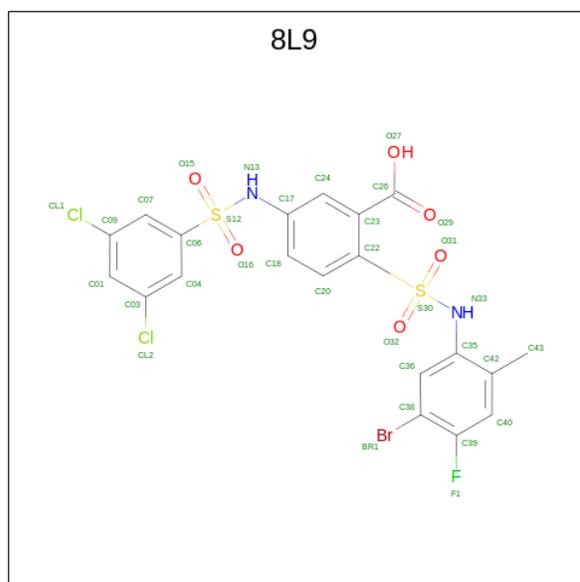

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			36	15	5	14	2		

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Zn	0	0
			1	1		

- Molecule 5 is 5-[[3,5-bis(chloranyl)phenyl]sulfonylamino]-2-[(5-bromanyl-4-fluoranyl-2-methyl-phenyl)sulfamoyl]benzoic acid (CCD ID: 8L9) (formula: $C_{20}H_{14}BrCl_2FN_2O_6S_2$) (labeled as "Ligand of Interest" by depositor).
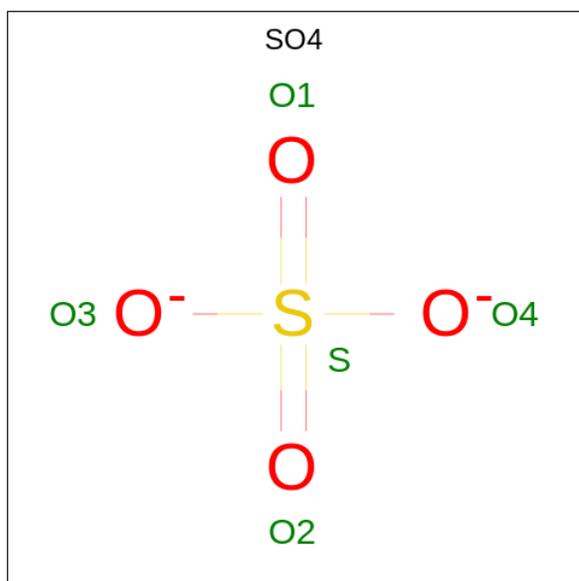

Mol	Chain	Residues	Atoms								ZeroOcc	AltConf
			Total	Br	C	Cl	F	N	O	S		
5	A	1	34	1	20	2	1	2	6	2	0	0

- Molecule 6 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).

GOL
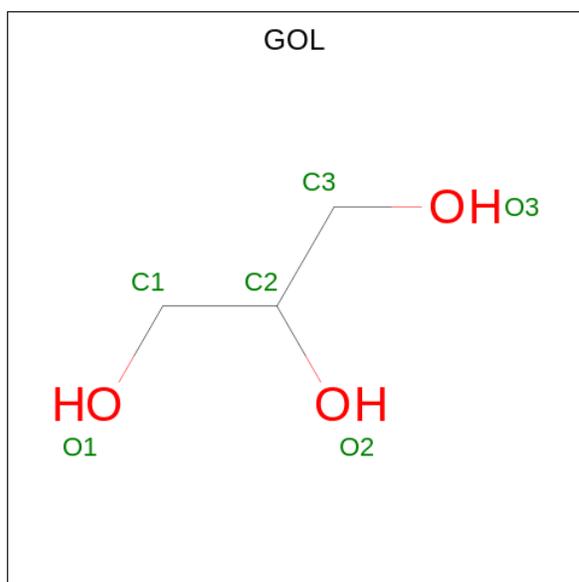
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total 6	C 3	O 3	0	0
6	A	1	Total 6	C 3	O 3	0	0
6	A	1	Total 6	C 3	O 3	0	0
6	A	1	Total 6	C 3	O 3	0	0

- Molecule 7 is SULFATE ION (CCD ID: SO4) (formula: O_4S).

SO4

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	A	1	Total O S 5 4 1			0	0
7	C	1	Total O S 5 4 1			0	0

- Molecule 8 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).
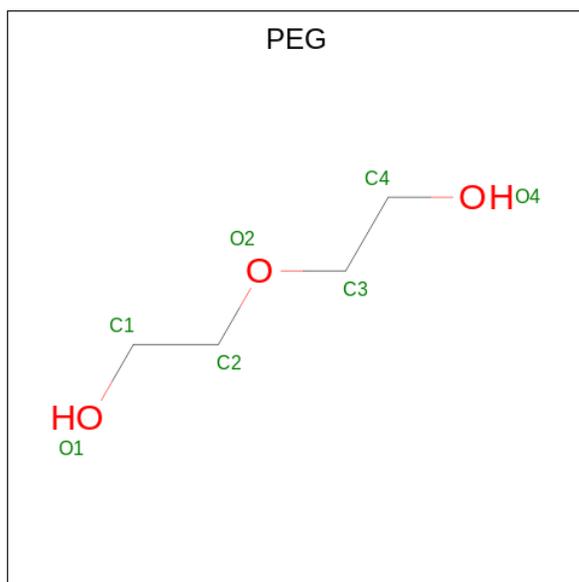
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	A	1	Total C O 7 4 3			0	0

- Molecule 9 is hexadecanethial (CCD ID: G4X) (formula: $C_{16}H_{32}S$).
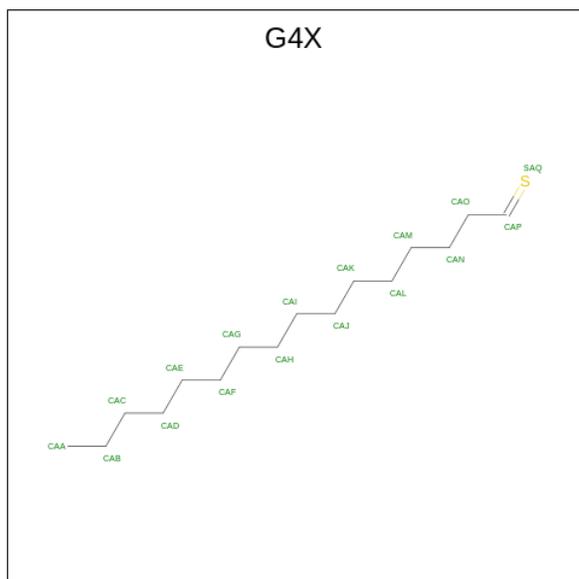
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
9	C	1	Total 17	C 16	S 1	0	0

- Molecule 10 is water.

| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	36	Total 36	O 36	0	0
10	C	2	Total 2	O 2	0	0

3 Residue-property plots ⓘ

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
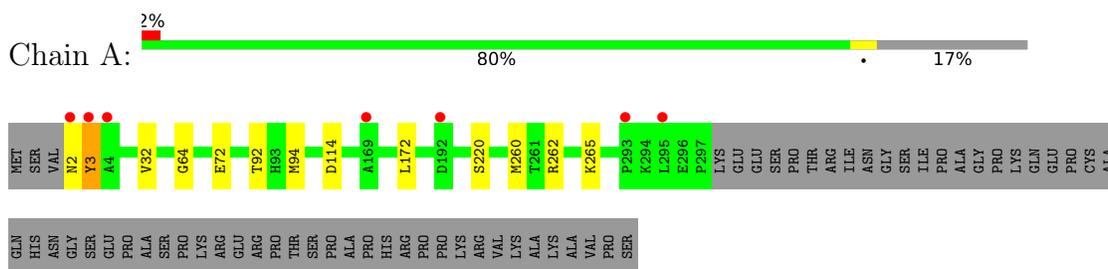
• Molecule 2: THR-ALA-ARG-LYS-SER-THR-GLY-GLY
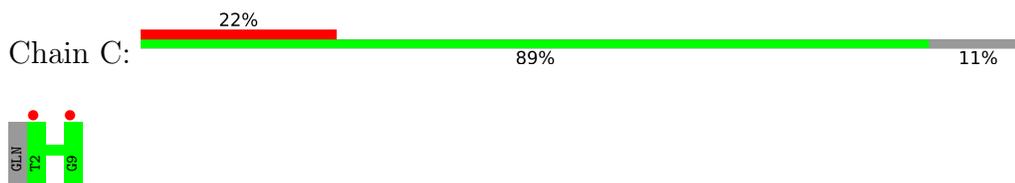
4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 41 3 2	Depositor
Cell constants a, b, c, α, β, γ	162.81Å　162.81Å　162.81Å 90.00°　　90.00°　　90.00°	Depositor
Resolution (Å)	115.12　–　3.20 115.12　–　3.20	Depositor EDS
% Data completeness (in resolution range)	99.8 (115.12-3.20) 99.9 (115.12-3.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$<I/\sigma(I)>$ [1]	2.39 (at 3.19Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
R, R_{free}	0.172　,　0.220 0.179　,　0.220	Depositor DCC
R_{free} test set	667 reflections (5.24%)	wwPDB-VP
Wilson B-factor (Å^2)	82.0	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 37.2	EDS
L-test for twinning[2]	$<\lvert L\rvert> = 0.49, <L^2> = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	2528	wwPDB-VP
Average B, all atoms (Å^2)	85.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.34% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $<\lvert L\rvert>$, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, SO4, AR6, 8L9, PEG, GOL, G4X

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	A	0.68	0/2360	0.93	2/3202 (0.1%)
2	C	0.67	0/52	0.87	0/67
All	All	0.68	0/2412	0.93	2/3269 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	64	GLY	CA-C-N	5.63	125.73	119.32
1	A	64	GLY	C-N-CA	5.63	125.73	119.32

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	3	TYR	Peptide

5.2 Too-close contacts ⓘ

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	A	2308	0	2326	4	0
2	C	53	0	52	0	0
3	A	36	0	21	0	0
4	A	1	0	0	0	0
5	A	34	0	0	0	0
6	A	24	0	32	0	0
7	A	5	0	0	0	0
7	C	5	0	0	0	0
8	A	7	0	10	0	0
9	C	17	0	0	0	0
10	A	36	0	0	0	0
10	C	2	0	0	0	0
All	All	2528	0	2441	4	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 1.

All (4) 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:92:THR:HG23	1:A:260:MET:HG3	1.87	0.57
1:A:94:MET:HA	1:A:94:MET:HE3	1.98	0.46
1:A:2:ASN:HB3	1:A:72:GLU:OE1	2.16	0.45
1:A:32:VAL:HG11	1:A:262:ARG:HB2	1.97	0.45

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	Percentiles	
1	A	294/355 (83%)	289 (98%)	5 (2%)	0	100	100
2	C	6/9 (67%)	5 (83%)	1 (17%)	0	100	100
All	All	300/364 (82%)	294 (98%)	6 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	A	248/298 (83%)	243 (98%)	5 (2%)	50	75
2	C	5/6 (83%)	5 (100%)	0	100	100
All	All	253/304 (83%)	248 (98%)	5 (2%)	50	75

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

Mol	Chain	Res	Type
1	A	3	TYR
1	A	114	ASP
1	A	172	LEU
1	A	220	SER
1	A	265	LYS

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

Mol	Chain	Res	Type
1	A	91	GLN
1	A	111	GLN
1	A	204	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 11 ligands modelled in this entry, 1 is monoatomic - leaving 10 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	#$|Z| > 2$	Counts	RMSZ	#$|Z| > 2$
3	AR6	A	401	-	34,39,39	0.81	2 (5%)	40,60,60	1.40	4 (10%)
6	GOL	A	405	-	5,5,5	0.34	0	5,5,5	0.49	0
9	G4X	C	101	-	15,16,16	0.34	0	13,15,15	1.69	3 (23%)
7	SO4	C	102	-	4,4,4	0.34	0	6,6,6	0.12	0
6	GOL	A	404	-	5,5,5	0.38	0	5,5,5	0.28	0
7	SO4	A	408	-	4,4,4	0.33	0	6,6,6	0.16	0
6	GOL	A	407	-	5,5,5	0.39	0	5,5,5	0.14	0
5	8L9	A	403	-	36,36,36	1.64	4 (11%)	54,55,55	1.60	7 (12%)
6	GOL	A	406	-	5,5,5	0.35	0	5,5,5	0.18	0
8	PEG	A	409	-	6,6,6	0.59	0	5,5,5	0.13	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	AR6	A	401	-	-	2/18/54/54	0/4/4/4
6	GOL	A	405	-	-	0/4/4/4	-
9	G4X	C	101	-	-	6/13/14/14	-
6	GOL	A	404	-	-	1/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	GOL	A	407	-	-	3/4/4/4	-
5	8L9	A	403	-	-	8/26/26/26	0/3/3/3
6	GOL	A	406	-	-	0/4/4/4	-
8	PEG	A	409	-	-	2/4/4/4	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	403	8L9	S30-N33	5.49	1.72	1.63
5	A	403	8L9	S12-N13	4.35	1.70	1.63
5	A	403	8L9	O16-S12	2.10	1.45	1.43
3	A	401	AR6	C5-C4	2.06	1.46	1.40
3	A	401	AR6	O4'-C1'	2.06	1.44	1.41
5	A	403	8L9	C20-C22	2.03	1.41	1.39

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	403	8L9	C06-S12-N13	-6.63	98.49	106.83
3	A	401	AR6	N3-C2-N1	-4.62	121.46	128.68
3	A	401	AR6	C1'-N9-C4	-4.09	119.45	126.64
5	A	403	8L9	O32-S30-C22	-3.54	101.84	107.66
5	A	403	8L9	O27-C26-C23	-2.72	107.47	115.31
5	A	403	8L9	C42-C35-N33	2.70	123.17	120.38
3	A	401	AR6	C2-N1-C6	2.58	123.17	118.75
9	C	101	G4X	CAM-CAN-CAO	-2.50	102.88	113.79
5	A	403	8L9	BR1-C38-C39	2.36	122.94	119.89
5	A	403	8L9	C07-C06-S12	2.34	121.70	119.08
9	C	101	G4X	CAI-CAJ-CAK	-2.31	102.72	114.42
5	A	403	8L9	C20-C22-C23	-2.18	118.63	121.20
9	C	101	G4X	CAG-CAH-CAI	-2.17	103.42	114.42
3	A	401	AR6	PB-O3A-PA	-2.16	125.42	132.83

There are no chirality outliers.

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
9	C	101	G4X	CAD-CAE-CAF-CAG
5	A	403	8L9	C17-N13-S12-O16
5	A	403	8L9	C22-C23-C26-O27

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Mol	Chain	Res	Type	Atoms
5	A	403	8L9	C22-C23-C26-O29
6	A	404	GOL	O1-C1-C2-C3
6	A	407	GOL	O1-C1-C2-C3
9	C	101	G4X	CAF-CAG-CAH-CAI
9	C	101	G4X	CAJ-CAK-CAL-CAM
5	A	403	8L9	C17-N13-S12-O15
9	C	101	G4X	CAL-CAM-CAN-CAO
8	A	409	PEG	O1-C1-C2-O2
5	A	403	8L9	C17-N13-S12-C06
9	C	101	G4X	CAC-CAD-CAE-CAF
5	A	403	8L9	C24-C23-C26-O27
5	A	403	8L9	C24-C23-C26-O29
9	C	101	G4X	CAB-CAC-CAD-CAE
6	A	407	GOL	O1-C1-C2-O2
8	A	409	PEG	O2-C3-C4-O4
3	A	401	AR6	C5D-O5D-PB-O3A
5	A	403	8L9	C35-N33-S30-O31
3	A	401	AR6	O4'-C4'-C5'-O5'
6	A	407	GOL	O2-C2-C3-O3

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.

Ligand AR6 A 401

Bond lengths	Bond angles
Torsions	Rings

Ligand G4X C 101

Bond lengths	Bond angles
Torsions	Rings

Ligand 8L9 A 403
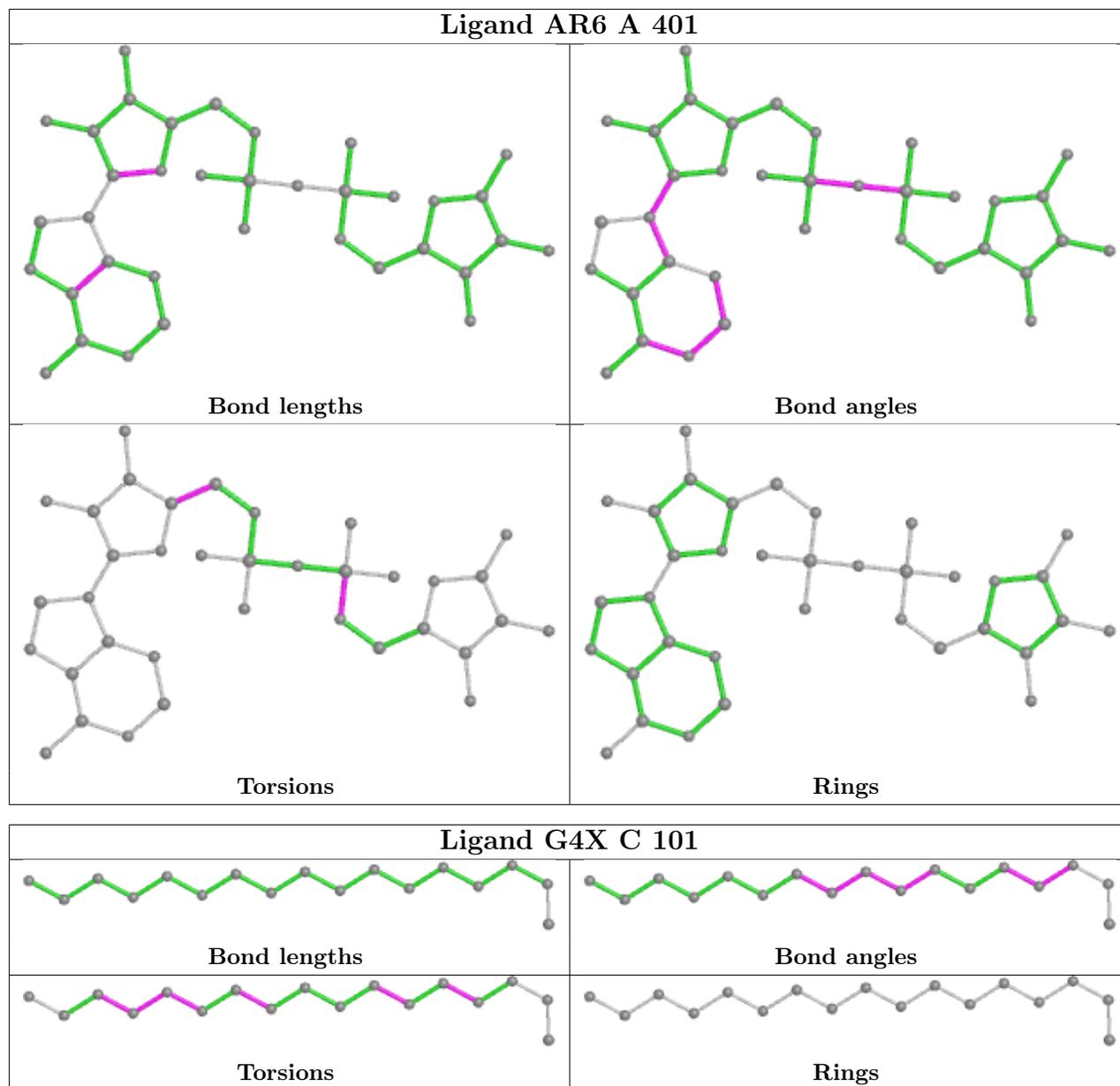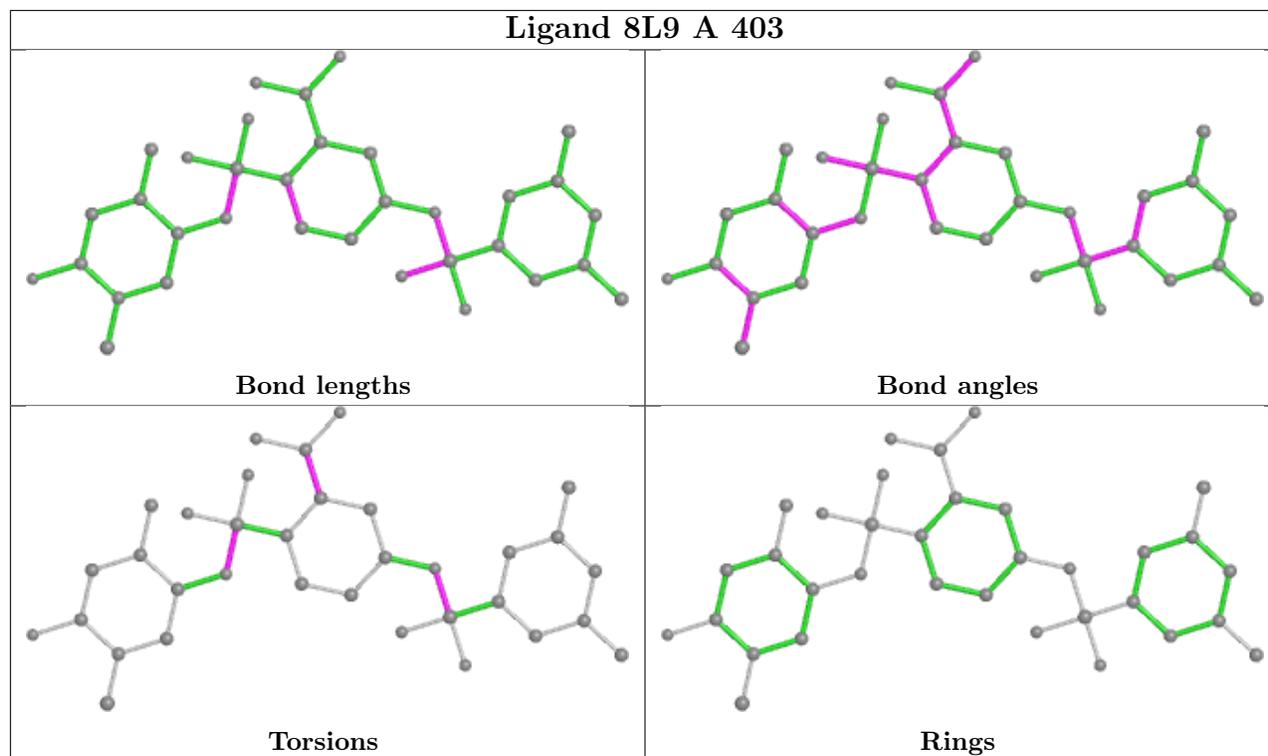
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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, 95th 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(Å²)	Q<0.9
1	A	296/355 (83%)	-0.27	7 (2%)	59	44	52, 75, 138, 173	0
2	C	8/9 (88%)	0.20	2 (25%)	2	2	64, 87, 118, 130	0
All	All	304/364 (83%)	-0.26	9 (2%)	52	37	52, 75, 131, 173	0

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	295	LEU	3.3
1	A	169	ALA	2.8
1	A	3	TYR	2.5
1	A	293	PRO	2.4
1	A	2	ASN	2.2
1	A	192	ASP	2.2
2	C	9	GLY	2.2
2	C	2	THR	2.1
1	A	4	ALA	2.1

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

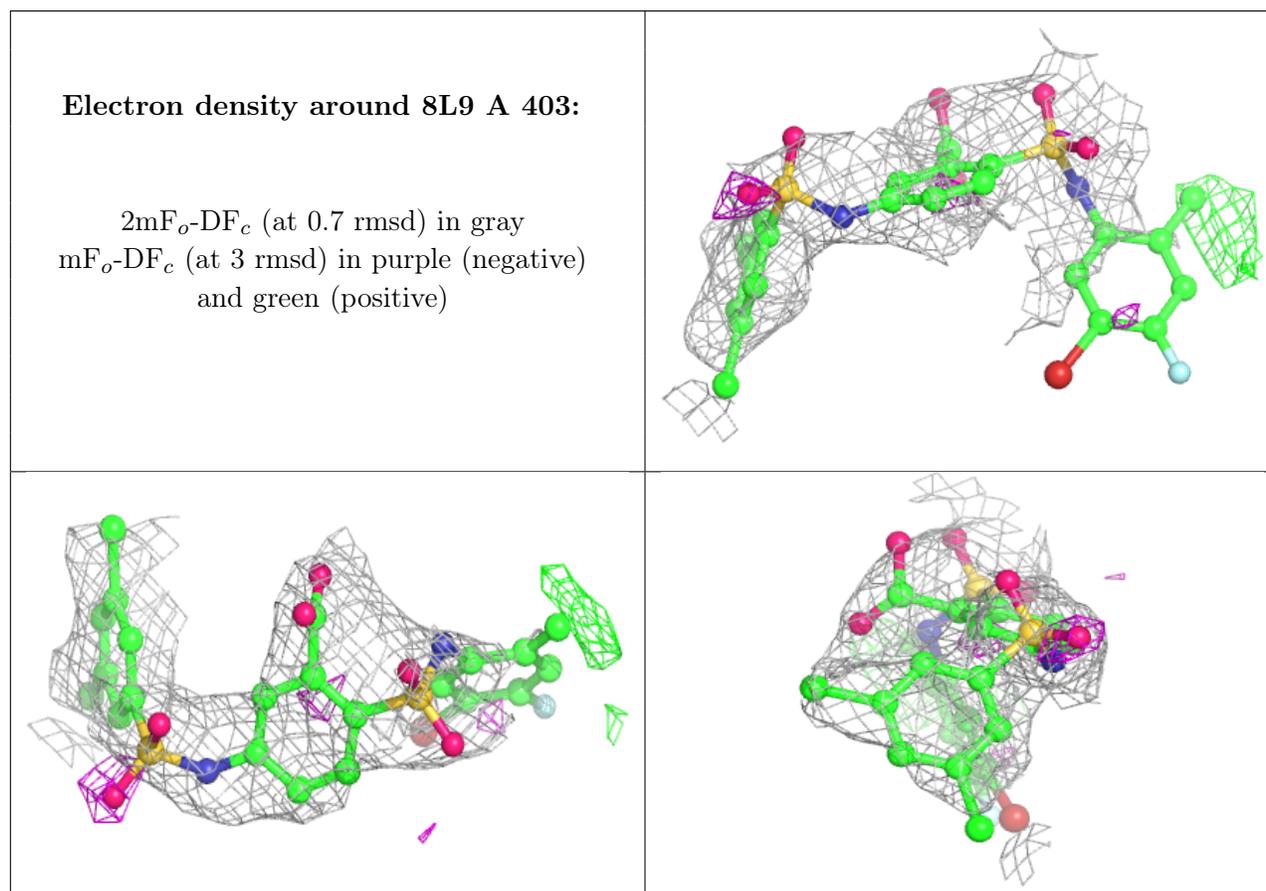## 6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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, 95th 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
6	GOL	A	405	6/6	0.62	0.25	104,120,125,131	0
7	SO4	C	102	5/5	0.70	0.13	168,172,179,180	0
5	8L9	A	403	34/34	0.74	0.15	132,175,211,252	0
6	GOL	A	407	6/6	0.88	0.14	124,130,132,133	0
6	GOL	A	404	6/6	0.88	0.23	112,115,120,121	0
6	GOL	A	406	6/6	0.89	0.20	102,108,112,117	0
8	PEG	A	409	7/7	0.90	0.21	80,93,105,107	0
7	SO4	A	408	5/5	0.93	0.17	127,129,131,136	0
9	G4X	C	101	17/17	0.95	0.18	72,75,109,113	0
3	AR6	A	401	36/36	0.98	0.05	48,55,59,68	0
4	ZN	A	402	1/1	1.00	0.01	78,78,78,78	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.
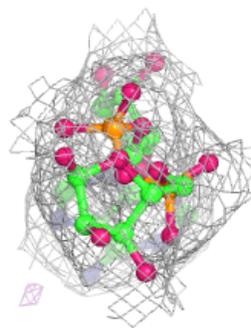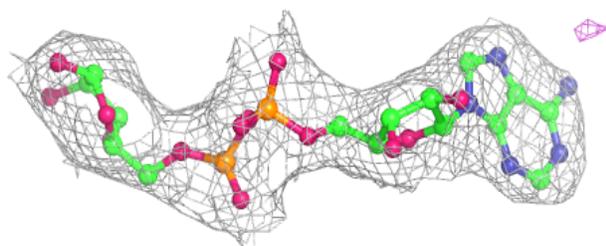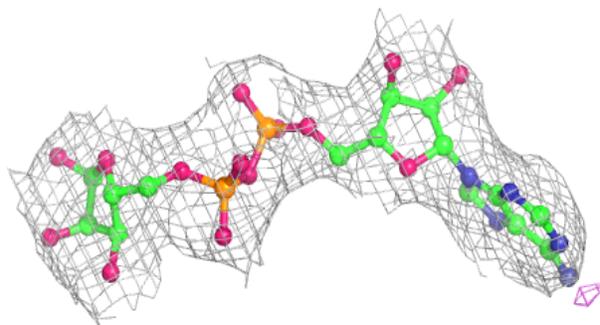

Electron density around 8L9 A 403:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around G4X C 101:

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative)
and green (positive)
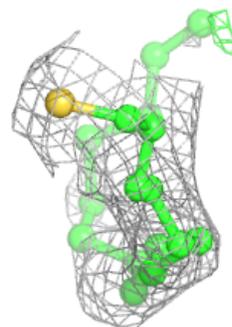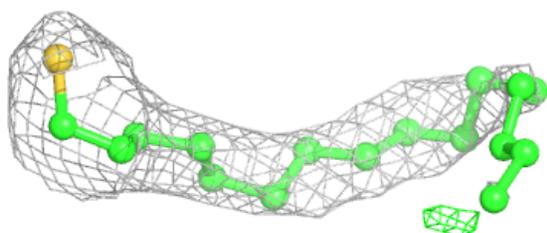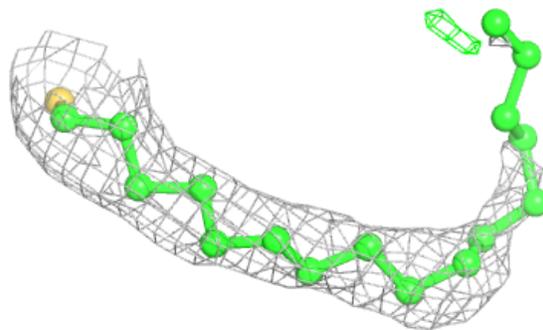
Electron density around AR6 A 401:

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative)
and green (positive)

6.5 Other polymers (i)

There are no such residues in this entry.