

Full wwPDB X-ray Structure Validation Report (i)

Jun 24, 2024 – 07:17 PM EDT

PDB ID : 6SYS

Title: Crystal structure of (3aR,4S,9bS)-4-(4-hydroxyphenyl)-3a,4,5,9b-tetrahydro-

3H-cyclopenta[c]quinoline-8-sulfonamide with carbonic anhydrase 2

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Deposited on : 2019-10-01

Resolution : 1.30 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 (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul : 2022.3.0, CSD as543be (2022)

Xtriage (Phenix) : 1.20.1

EDS : 2.37.1

 $buster-report \quad : \quad 1.1.7 \ (2018)$

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

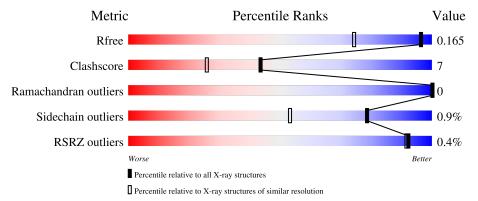
Validation Pipeline (wwPDB-VP) : 2.37.1

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 1.30 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	Whole archive $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
R_{free}	130704	1058 (1.30-1.30)
Clashscore	141614	1101 (1.30-1.30)
Ramachandran outliers	138981	1058 (1.30-1.30)
Sidechain outliers	138945	1058 (1.30-1.30)
RSRZ outliers	127900	1029 (1.30-1.30)

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	260	88%	9%	:

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
4	LZW	A	304	X	-	X	-



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 2459 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.

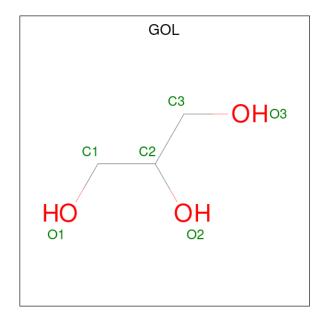
• Molecule 1 is a protein called carbonic anhydrase 2.

Mo	Chain	Residues		\mathbf{At}	oms			ZeroOcc	AltConf	Trace
1	Λ	257	Total	С	N	О	S	0	20	0
1	A	201	2088	1348	350	388	2	0	20	U

• Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

\mathbf{Mol}	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Zn 1 1	0	0

• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).

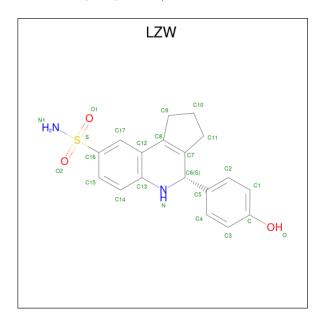


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 6 3 3	0	0

• Molecule 4 is (4 {S})-4-(4-hydroxyphenyl)-2,3,4,5-tetrahydro-1 {H}-cyclopenta[c]quinoli



ne-8-sulfonamide (three-letter code: LZW) (formula: $C_{18}H_{18}N_2O_3S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
1	Λ	1	Total	С	N	О	S	0	0	
4	Λ	1	24	18	2	3	1	0		
1	Λ	1	Total	С	N	О	S	0	0	
4	A	1	24	18	2	3	1	0		

• Molecule 5 is water.

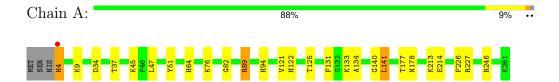
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	316	Total O 316 316	0	0



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: carbonic anhydrase 2





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	42.48Å 41.44Å 72.24Å	Depositor
a, b, c, α , β , γ	90.00° 104.44° 90.00°	Depositor
Resolution (Å)	69.96 - 1.30	Depositor
resolution (A)	69.96 - 1.30	EDS
% Data completeness	98.7 (69.96-1.30)	Depositor
(in resolution range)	98.7 (69.96-1.30)	EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.61 (at 1.30Å)	Xtriage
Refinement program	REFMAC 5.8.0257	Depositor
Ρ. Р.	0.119 , 0.164	Depositor
R, R_{free}	0.120 , 0.165	DCC
R_{free} test set	3048 reflections (5.13%)	wwPDB-VP
Wilson B-factor (Å ²)	9.2	Xtriage
Anisotropy	0.851	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.38, 53.9	EDS
L-test for twinning ²	$< L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.021 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	2459	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 9.09% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ 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, GOL, LZW

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	Bo	nd lengths	Bo	ond angles
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.84	1/2180 (0.0%)	1.05	9/2958 (0.3%)

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 maintain group or atoms of a sidechain that are expected to be planar.

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

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
1	A	214	GLU	CD-OE1	-6.59	1.18	1.25

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	226	PHE	CB-CG-CD1	8.31	126.62	120.80
1	A	141	LEU	CB-CG-CD2	8.24	125.00	111.00
1	A	246	ARG	NE-CZ-NH1	8.05	124.33	120.30
1	A	89	ARG	CG-CD-NE	-6.97	97.16	111.80
1	A	51	TYR	CB-CG-CD1	6.78	125.07	121.00
1	A	227	ARG	NE-CZ-NH2	6.47	123.53	120.30
1	A	246	ARG	NE-CZ-NH2	-6.25	117.17	120.30
1	A	51	TYR	CB-CG-CD2	-6.04	117.37	121.00
1	A	47	LEU	N-CA-CB	-5.26	99.88	110.40

There are no chirality outliers.

All (1) planarity outliers are listed below:



Mol	Chain	Res	Type	Group
1	A	76	LYS	Mainchain

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	A	2088	0	2036	25	2
2	A	1	0	0	0	0
3	A	6	0	8	3	0
4	A	48	0	0	18	0
5	A	316	0	0	3	3
All	All	2459	0	2044	28	3

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 7.

All (28) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:A:131:PHE:HZ	4:A:304:LZW:C11	1.53	1.22
1:A:131:PHE:HZ	4:A:304:LZW:C10	1.58	1.15
1:A:131:PHE:CZ	4:A:304:LZW:C11	2.35	1.08
1:A:131:PHE:CZ	4:A:304:LZW:C10	2.37	1.07
1:A:64[B]:HIS:HD2	3:A:302:GOL:O1	1.43	1.01
1:A:141:LEU:HD11	4:A:304:LZW:C10	1.92	1.00
1:A:131:PHE:HZ	4:A:304:LZW:C7	1.77	0.98
1:A:131:PHE:CZ	4:A:304:LZW:C7	2.47	0.97
1:A:64[B]:HIS:CD2	3:A:302:GOL:O1	2.25	0.90
1:A:141:LEU:CD1	4:A:304:LZW:C10	2.62	0.78
1:A:121:VAL:HG11	4:A:304:LZW:C9	2.15	0.76
4:A:304:LZW:C11	4:A:304:LZW:C2	2.67	0.72
1:A:131:PHE:HZ	4:A:304:LZW:C9	2.13	0.61
1:A:131:PHE:CZ	4:A:304:LZW:C9	2.86	0.57
4:A:304:LZW:C8	5:A:620:HOH:O	2.53	0.55
1:A:4:HIS:HA	4:A:303:LZW:C9	2.36	0.55
1:A:131:PHE:CE1	4:A:304:LZW:C10	2.90	0.54
1:A:131:PHE:CE2	4:A:304:LZW:C7	2.91	0.52

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Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${ m distance}({ m \AA})$	overlap (Å)
1:A:34[A]:ASP:OD2	1:A:37:THR:HG23	2.12	0.50
1:A:131:PHE:CE2	4:A:304:LZW:C11	2.96	0.47
4:A:304:LZW:C7	5:A:620:HOH:O	2.63	0.47
1:A:134:ALA:O	1:A:140:GLY:HA3	2.15	0.46
1:A:133[A]:LYS:HG2	5:A:559:HOH:O	2.16	0.45
1:A:94:HIS:CG	3:A:302:GOL:H2	2.53	0.44
1:A:213[B]:LYS:HB3	1:A:213[B]:LYS:HE3	1.75	0.43
1:A:45:LYS:O	1:A:82:GLY:HA2	2.18	0.42
1:A:89:ARG:HG3	1:A:125:THR:CG2	2.51	0.40
1:A:89:ARG:O	1:A:122:HIS:HA	2.21	0.40

All (3) 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	$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:A:177:THR:OG1	5:A:650:HOH:O[2_455]	1.63	0.57
5:A:507:HOH:O	5:A:615:HOH:O[1_565]	1.73	0.47
1:A:178:ASN:ND2	5:A:650:HOH:O[2_455]	2.03	0.17

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	ysed Favoured Al		Outliers	Percentiles	
1	A	$265/260\ (102\%)$	257 (97%)	8 (3%)	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	A	225/225 (100%)	223 (99%)	2 (1%)	78 53

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	HIS
1	A	9	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 4 ligands modelled in this entry, 1 is monoatomic - leaving 3 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	Tuno	Chain	Peg	Link	Bo	ond leng	ths	В	ond ang	gles
IVIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
3	GOL	A	302	-	5,5,5	0.36	0	5,5,5	1.01	1 (20%)



Mol	Type Chain Re		pe Chain Res Lin		Bond lengths			Bond angles		
MIOI	Type	Chain	nes	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	LZW	A	304	2	26,27,27	4.62	8 (30%)	36,41,41	3.69	14 (38%)
4	LZW	A	303	-	26,27,27	4.40	6 (23%)	36,41,41	2.91	10 (27%)

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	GOL	A	302	-	-	4/4/4/4	-
4	LZW	A	304	2	1/1/4/5	2/10/32/32	0/4/4/4
4	LZW	A	303	-	-	2/10/32/32	0/4/4/4

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	Ideal(A)
4	A	304	LZW	C7-C8	21.23	1.59	1.33
4	A	303	LZW	C7-C8	20.79	1.58	1.33
4	A	304	LZW	C14-C13	-4.84	1.31	1.39
4	A	303	LZW	S-N1	4.60	1.69	1.60
4	A	304	LZW	O2-S	4.43	1.51	1.43
4	A	304	LZW	C10-C9	-4.24	1.35	1.52
4	A	303	LZW	C10-C9	-4.07	1.36	1.52
4	A	303	LZW	C12-C8	3.58	1.53	1.46
4	A	304	LZW	O1-S	3.32	1.49	1.43
4	A	304	LZW	C17-C12	2.55	1.43	1.39
4	A	303	LZW	C17-C12	2.22	1.43	1.39
4	A	304	LZW	C11-C7	2.21	1.55	1.51
4	A	304	LZW	C12-C8	2.09	1.50	1.46
4	A	303	LZW	C11-C7	2.02	1.55	1.51

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
4	A	304	LZW	C9-C8-C7	-10.33	101.50	111.63
4	A	303	LZW	C9-C8-C7	-9.62	102.20	111.63
4	A	304	LZW	C12-C8-C7	-9.43	109.58	122.31
4	A	304	LZW	C5-C6-N	-9.33	99.39	110.89
4	A	303	LZW	C10-C9-C8	8.19	112.35	103.98
4	A	304	LZW	C10-C9-C8	6.87	111.00	103.98
4	A	304	LZW	C11-C7-C8	-6.81	104.07	112.60

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Mol	Chain	Res	Type	Atoms	${f Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
4	A	303	LZW	C12-C8-C7	-6.45	113.61	122.31
4	A	303	LZW	C5-C6-N	4.89	116.92	110.89
4	A	303	LZW	C11-C7-C8	-4.52	106.94	112.60
4	A	304	LZW	C14-C13-N	-3.93	114.67	120.70
4	A	303	LZW	C15-C16-S	-3.87	114.46	119.72
4	A	304	LZW	C13-N-C6	3.53	127.49	117.92
4	A	304	LZW	C17-C16-S	3.51	125.68	119.34
4	A	304	LZW	C12-C13-N	3.34	123.48	119.31
4	A	303	LZW	C17-C16-S	3.30	125.29	119.34
4	A	304	LZW	C15-C16-S	-3.24	115.33	119.72
4	A	303	LZW	C13-N-C6	-2.98	109.83	117.92
4	A	303	LZW	O1-S-C16	-2.87	104.10	107.35
4	A	304	LZW	O2-S-C16	-2.68	104.32	107.35
4	A	304	LZW	C13-C12-C8	-2.32	117.16	120.24
4	A	303	LZW	C11-C10-C9	2.31	112.95	107.18
4	A	304	LZW	O1-S-N1	2.11	110.40	107.35
4	A	304	LZW	C11-C10-C9	2.10	112.45	107.18
3	A	302	GOL	O2-C2-C3	2.04	117.61	109.18

All (1) chirality outliers are listed below:

\mathbf{Mol}	Chain	Res	Type	Atom
4	A	304	LZW	C6

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	302	GOL	O1-C1-C2-C3
3	A	302	GOL	C1-C2-C3-O3
3	A	302	GOL	O1-C1-C2-O2
3	A	302	GOL	O2-C2-C3-O3
4	A	303	LZW	C2-C5-C6-C7
4	A	304	LZW	C17-C16-S-O1
4	A	303	LZW	C4-C5-C6-C7
4	A	304	LZW	C15-C16-S-O1

There are no ring outliers.

3 monomers are involved in 21 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	302	GOL	3	0

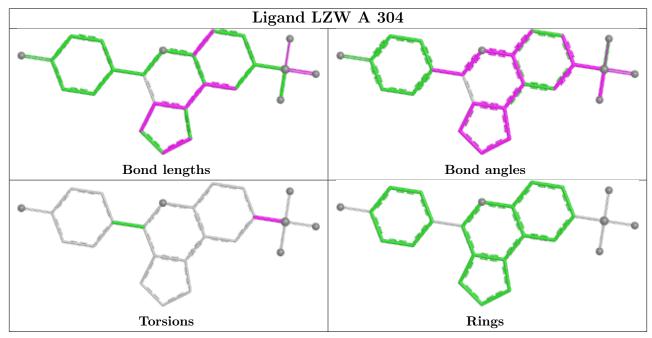
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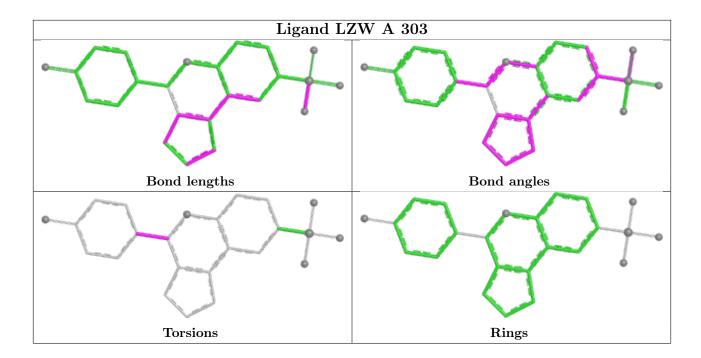
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	304	LZW	17	0
4	A	303	LZW	1	0

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	$\langle { m RSRZ} \rangle$	$\#\mathrm{RSRZ}{>}2$		$OWAB(A^2)$	Q<0.9	
1	A	257/260 (98%)	-0.25	1 (0%)	92	91	8, 13, 29, 57	2 (0%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	4	HIS	2.6

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)

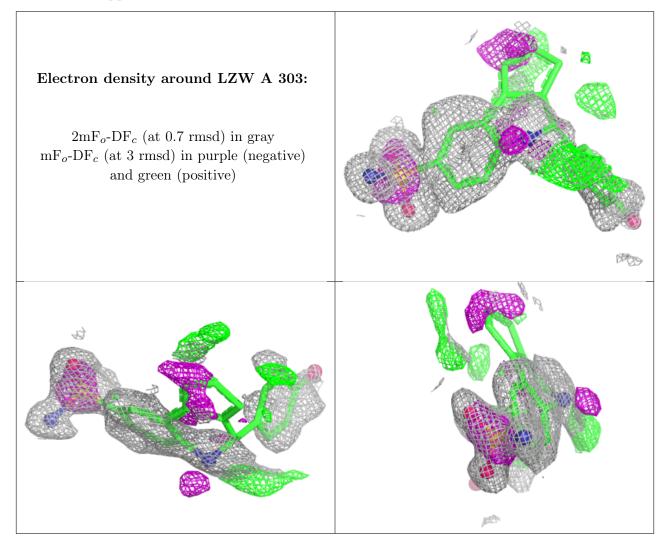
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	GOL	A	302	6/6	0.91	0.12	16,29,35,37	0
4	LZW	A	303	24/24	0.94	0.21	19,48,79,100	0
4	LZW	A	304	24/24	0.97	0.18	9,29,43,52	0
2	ZN	A	301	1/1	1.00	0.09	9,9,9,9	0

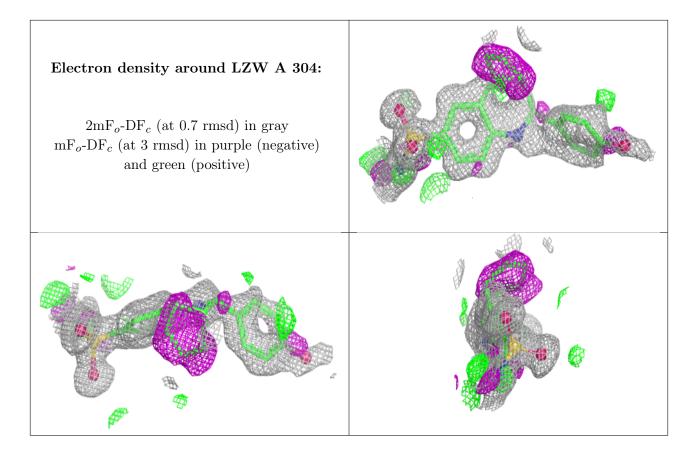
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers



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.

