

Full wwPDB X-ray Structure Validation Report (i)

Apr 5, 2022 – 10:06 am BST

PDB ID : 7NZX

Title: Crystal structure of chimeric carbonic anhydrase VA with 2,3,5,6-tetrafluoro-

4-[(2-hydroxyethyl)sulfonyl]benzenesulfonamide

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Deposited on : 2021-03-24

Resolution : 1.33 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 following versions of software and data (see references (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul: 1.8.4, CSD as541be (2020)

 $Xtriage\ (Phenix) \quad : \quad 1.13$

EDS : 2.27

buster-report : 1.1.7 (2018)

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

 $Refmac \quad : \quad 5.8.0267$

CCP4 : 7.1.010 (Gargrove)

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

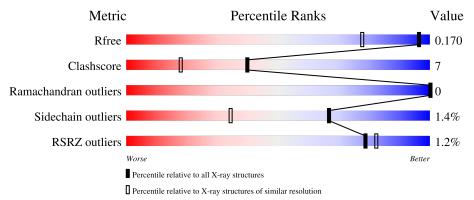
Validation Pipeline (wwPDB-VP) : 2.27

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 1.33 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.



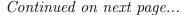
Metric	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	Similar resolution $(\# \text{Entries, resolution range}(\text{\AA}))$
R_{free}	130704	1385 (1.36-1.32)
Clashscore	141614	1417 (1.36-1.32)
Ramachandran outliers	138981	1397 (1.36-1.32)
Sidechain outliers	138945	1397 (1.36-1.32)
RSRZ outliers	127900	1369 (1.36-1.32)

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	91%	8%	

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
3	V13	A	302[A]	-	-	X	-





 $Continued\ from\ previous\ page...$

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	BCN	A	303	-	-	X	-



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 2496 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.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	A	258	Total	C	N	0	S	0	11	0
1	11	200	2139	1371	358	408	2		11	

There are 7 discrepancies between the modelled and reference sequences:

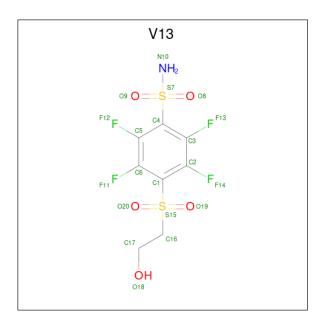
Chain	Residue	Modelled	Actual	Comment	Reference
A	62	THR	ASN	engineered mutation	UNP P00918
A	64	TYR	HIS	engineered mutation	UNP P00918
A	65	LEU	ALA	engineered mutation	UNP P00918
A	67	GLN	ASN	engineered mutation	UNP P00918
A	91	LYS	ILE	engineered mutation	UNP P00918
A	130	TYR	PHE	engineered mutation	UNP P00918
A	203	THR	LEU	engineered mutation	UNP P00918

• 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

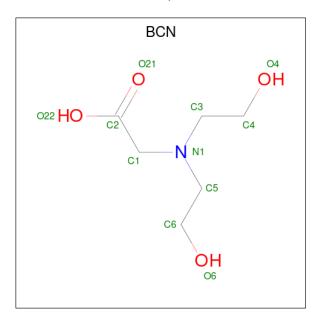
• Molecule 3 is 2,3,5,6-tetrafluoro-4-[(2-hydroxyethyl)sulfonyl]benzenesulfonamide (three-letter code: V13) (formula: C₈H₇F₄NO₅S₂) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues		A	ton	ns			ZeroOcc	AltConf
3	A	1	Total 40	C 16	F 8	N 2	O 10	S 4	0	1

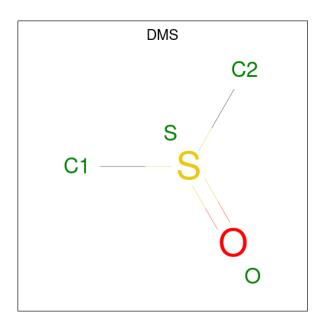
 \bullet Molecule 4 is BICINE (three-letter code: BCN) (formula: $\mathrm{C_6H_{13}NO_4}).$



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total 11	C 6	N 1	O 4	0	0

 \bullet Molecule 5 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: $\mathrm{C_2H_6OS}).$





Mol	Chain	Residues	A	Atoms				AltConf
5	A	1	Total 4	C 2	O 1	S 1	0	0

 \bullet Molecule 6 is SODIUM ION (three-letter code: NA) (formula: Na).

Mo	ol	Chain	Residues	Atoms	ZeroOcc	AltConf
6		A	1	Total Na 1 1	0	0

• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	300	Total O 300 300	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	$42.16\text{\AA} 41.33\text{Å} 71.55\text{Å}$	Donositon	
a, b, c, α , β , γ	90.00° 104.13° 90.00°	Depositor	
Resolution (Å)	69.38 - 1.33	Depositor	
Resolution (A)	69.38 - 1.33	EDS	
% Data completeness	97.2 (69.38-1.33)	Depositor	
(in resolution range)	97.3 (69.38-1.33)	EDS	
R_{merge}	(Not available)	Depositor	
R_{sym}	0.05	Depositor	
$< I/\sigma(I) > 1$	2.30 (at 1.33Å)	Xtriage	
Refinement program	REFMAC 5.8.0232	Depositor	
D.D.	0.124 , 0.170	Depositor	
R, R_{free}	0.124 , 0.170	DCC	
R_{free} test set	5334 reflections $(9.91%)$	wwPDB-VP	
Wilson B-factor (Å ²)	12.5	Xtriage	
Anisotropy	0.189	Xtriage	
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	(Not available), (Not available)	EDS	
L-test for twinning ²	$< L > = 0.48, < L^2> = 0.31$	Xtriage	
Estimated twinning fraction	0.022 for h,-k,-h-l	Xtriage	
F_o, F_c correlation	0.98	EDS	
Total number of atoms	2496	wwPDB-VP	
Average B, all atoms (Å ²)	19.0	wwPDB-VP	

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.35% 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: NA, BCN, DMS, ZN, V13

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	Chain	Bond	lengths	Bo	nd angles
IVIOI	$Mol \mid Chain \mid RMS$		# Z > 5	RMSZ $\# Z > 5$	
1	A	0.72	0/2203	1.06	3/2994 (0.1%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}(^{o})$
1	A	259	PHE	C-N-CA	7.25	139.81	121.70
1	A	14	GLU	CB-CG-CD	5.87	130.04	114.20
1	A	259	PHE	O-C-N	5.67	131.76	122.70

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	A	2139	0	2028	21	0
2	A	1	0	0	0	0
3	A	40	0	14	10	0
4	A	11	0	12	8	0
5	A	4	0	6	0	0
6	A	1	0	0	0	0
7	A	300	0	0	9	0
All	All	2496	0	2060	31	0



The all-atom clash score is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clash score for this structure is 7.

All (31) 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)
3:A:302[B]:V13:O18	3:A:302[B]:V13:C17	1.65	1.42
3:A:302[A]:V13:H3	3:A:302[A]:V13:C2	1.90	0.99
3:A:302[A]:V13:H3	3:A:302[A]:V13:F14	1.75	0.75
4:A:303:BCN:C4	7:A:490:HOH:O	2.39	0.71
4:A:303:BCN:H41	7:A:490:HOH:O	1.92	0.69
3:A:302[A]:V13:F14	3:A:302[A]:V13:C17	2.34	0.65
3:A:302[B]:V13:C17	3:A:302[B]:V13:H5	2.09	0.61
1:A:130:TYR:OH	3:A:302[A]:V13:O19	2.13	0.60
3:A:302[B]:V13:O18	3:A:302[B]:V13:C16	2.50	0.58
1:A:213[B]:GLU:HG3	4:A:303:BCN:H52	1.85	0.57
1:A:132:LYS:HG2	7:A:456:HOH:O	2.05	0.55
1:A:45:LYS:HB3	1:A:46:PRO:HD2	1.90	0.54
1:A:64[B]:TYR:CD2	1:A:65:LEU:HG	2.43	0.53
1:A:36:HIS:ND1	7:A:403:HOH:O	2.24	0.53
1:A:129[A]:ASP:HB2	7:A:580:HOH:O	2.09	0.53
1:A:133:ALA:O	1:A:139:GLY:HA3	2.09	0.53
3:A:302[A]:V13:C2	3:A:302[A]:V13:C17	2.78	0.48
1:A:3:HIS:HE1	7:A:627:HOH:O	1.96	0.48
1:A:223[A]:LEU:HD12	1:A:223[A]:LEU:C	2.34	0.48
1:A:223[B]:LEU:HD12	7:A:491:HOH:O	2.13	0.48
4:A:303:BCN:H42	7:A:490:HOH:O	2.11	0.47
1:A:45:LYS:HB3	1:A:46:PRO:CD	2.44	0.47
1:A:214:PRO:HG3	4:A:303:BCN:H42	1.97	0.46
1:A:212:LYS:HD2	1:A:259:PHE:CZ	2.51	0.46
1:A:213[A]:GLU:HA	4:A:303:BCN:H52	1.98	0.46
1:A:213[B]:GLU:HA	4:A:303:BCN:H52	1.99	0.45
1:A:197:LEU:HD22	3:A:302[A]:V13:C6	2.48	0.43
1:A:197:LEU:HD22	3:A:302[A]:V13:C1	2.49	0.42
1:A:27:ARG:CD	1:A:204:GLU:HB3	2.48	0.42
1:A:214:PRO:CG	4:A:303:BCN:H42	2.49	0.42
1:A:223[B]:LEU:CD1	7:A:491:HOH:O	2.69	0.41

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	Percentiles
1	A	267/260 (103%)	255 (96%)	12 (4%)	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	Analysed Rotameric		Percentiles
1	A	228/226 (101%)	224 (98%)	4 (2%)	59 24

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	HIS
1	A	92	GLN
1	A	223[A]	LEU
1	A	223[B]	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	3	HIS
1	A	135	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 6 ligands modelled in this entry, 2 are monoatomic - leaving 4 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	pe Chain Res Link		Bo	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	V13	A	302[A]	2	19,20,20	1.73	3 (15%)	29,32,32	2.89	10 (34%)
3	V13	A	302[B]	2	19,20,20	2.10	5 (26%)	29,32,32	2.32	11 (37%)
4	BCN	A	303	-	7,10,10	0.43	0	8,11,11	1.85	3 (37%)
5	DMS	A	304	-	3,3,3	0.71	0	3,3,3	0.66	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	V13	A	302[A]	2	-	9/16/16/16	0/1/1/1
3	V13	A	302[B]	2	-	10/16/16/16	0/1/1/1
4	BCN	A	303	-	-	6/8/10/10	-

All (8) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
3	A	302[B]	V13	O20-S15	5.68	1.52	1.44
3	A	302[A]	V13	O19-S15	5.29	1.52	1.44
3	A	302[B]	V13	O18-C17	4.51	1.65	1.42
3	A	302[B]	V13	C16-S15	3.09	1.84	1.77
3	A	302[B]	V13	C2-C1	-2.84	1.34	1.39
3	A	302[B]	V13	O19-S15	2.46	1.47	1.44
3	A	302[A]	V13	O20-S15	2.44	1.47	1.44
3	A	302[A]	V13	C2-C1	2.33	1.43	1.39

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
3	A	302[A]	V13	O19-S15-O20	-8.75	108.21	118.44
3	A	302[A]	V13	O8-S7-C4	-7.79	95.74	107.30
3	A	302[B]	V13	C2-C1-C6	6.99	121.57	116.67
3	A	302[B]	V13	O19-S15-O20	-4.53	113.15	118.44
3	A	302[A]	V13	O19-S15-C1	4.13	117.15	106.54
3	A	302[A]	V13	O20-S15-C16	4.12	115.59	108.20
3	A	302[A]	V13	O18-C17-C16	3.98	118.38	110.38
4	A	303	BCN	C5-N1-C3	3.52	119.80	111.44
3	A	302[B]	V13	O18-C17-C16	-3.13	104.08	110.38
3	A	302[A]	V13	O19-S15-C16	-2.94	102.92	108.20
3	A	302[A]	V13	O8-S7-N10	2.93	111.71	107.36
3	A	302[B]	V13	C4-S7-N10	-2.89	102.92	108.26
3	A	302[B]	V13	C16-S15-C1	2.87	120.06	108.15
3	A	302[B]	V13	O9-S7-N10	2.87	111.61	107.36
3	A	302[B]	V13	F13-C3-C2	-2.80	113.43	119.27
3	A	302[B]	V13	O9-S7-C4	-2.77	103.19	107.30
3	A	302[A]	V13	C3-C4-C5	-2.56	114.87	116.67
3	A	302[B]	V13	C2-C1-S15	-2.55	114.56	120.84
4	A	303	BCN	C6-C5-N1	2.44	122.16	113.40
3	A	302[B]	V13	F13-C3-C4	2.43	125.25	120.70
3	A	302[A]	V13	F14-C2-C3	-2.41	114.25	119.27
4	A	303	BCN	C1-N1-C5	2.26	116.06	111.29
3	A	302[B]	V13	C5-C6-C1	-2.21	118.93	121.74
3	A	302[A]	V13	F14-C2-C1	2.20	124.82	120.70

There are no chirality outliers.

All (25) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	302[A]	V13	C17-C16-S15-O20

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Mol	Chain	Res	Type	Atoms
3	A	302[A]	V13	C17-C16-S15-O19
3	A	302[A]	V13	C17-C16-S15-C1
3	A	302[A]	V13	C6-C1-S15-C16
3	A	302[A]	V13	S15-C16-C17-O18
3	A	302[A]	V13	C3-C4-S7-O8
3	A	302[B]	V13	C17-C16-S15-O20
3	A	302[B]	V13	C17-C16-S15-O19
3	A	302[B]	V13	C17-C16-S15-C1
3	A	302[B]	V13	C6-C1-S15-C16
3	A	302[B]	V13	C2-C1-S15-C16
3	A	302[B]	V13	C5-C4-S7-O8
3	A	302[B]	V13	C3-C4-S7-N10
3	A	302[B]	V13	C3-C4-S7-O8
4	A	303	BCN	C2-C1-N1-C3
4	A	303	BCN	C6-C5-N1-C1
4	A	303	BCN	N1-C3-C4-O4
3	A	302[A]	V13	C2-C1-S15-O19
3	A	302[B]	V13	C6-C1-S15-O20
3	A	302[B]	V13	C2-C1-S15-O20
4	A	303	BCN	C2-C1-N1-C5
3	A	302[A]	V13	C2-C1-S15-C16
3	A	302[A]	V13	C3-C4-S7-N10
4	A	303	BCN	C4-C3-N1-C1
4	A	303	BCN	C6-C5-N1-C3

There are no ring outliers.

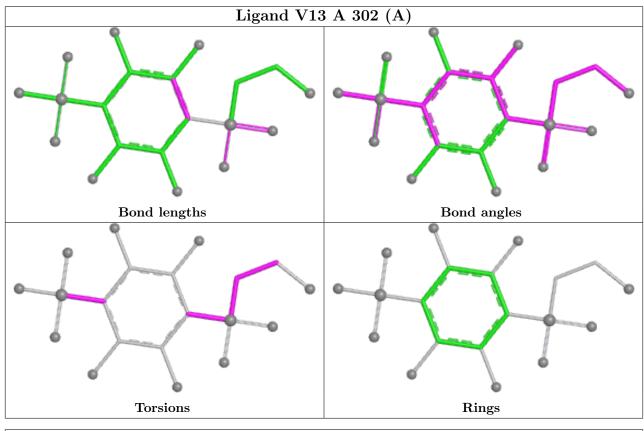
3 monomers are involved in 18 short contacts:

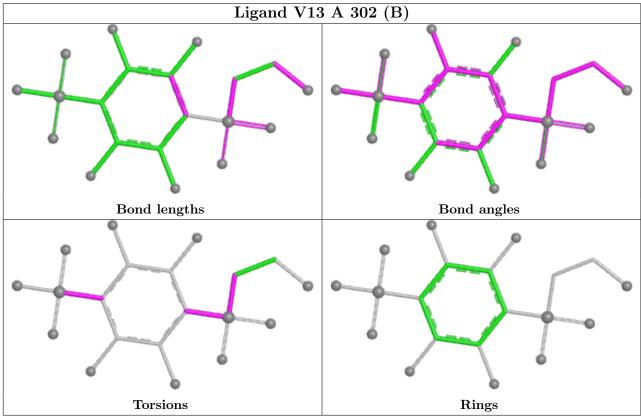
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	302[A]	V13	7	0
3	A	302[B]	V13	3	0
4	A	303	BCN	8	0

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	$\langle { m RSRZ} \rangle$	# RSRZ > 2		$OWAB(Å^2)$	Q < 0.9	
1	A	258/260 (99%)	-0.52	3 (1%)	79 8	2	8, 15, 34, 74	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	3	HIS	4.2
1	A	252	ASN	2.5
1	A	4	HIS	2.5

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
4	BCN	A	303	11/11	0.83	0.26	29,42,52,58	0
5	DMS	A	304	4/4	0.96	0.20	24,27,34,38	0
3	V13	A	302[A]	20/20	0.98	0.10	9,17,29,43	20
3	V13	A	302[B]	20/20	0.98	0.10	8,17,62,69	20

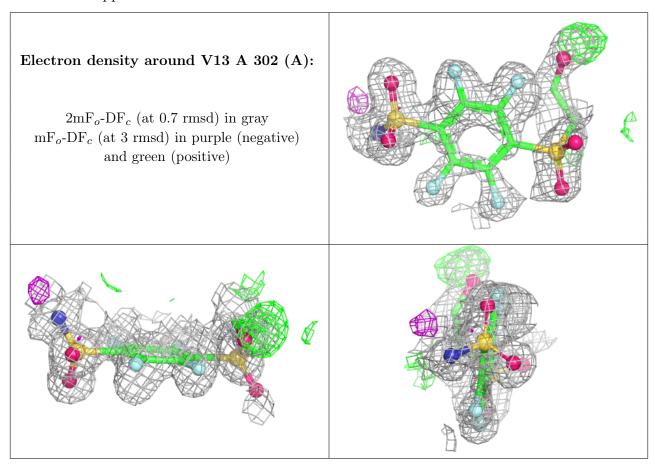
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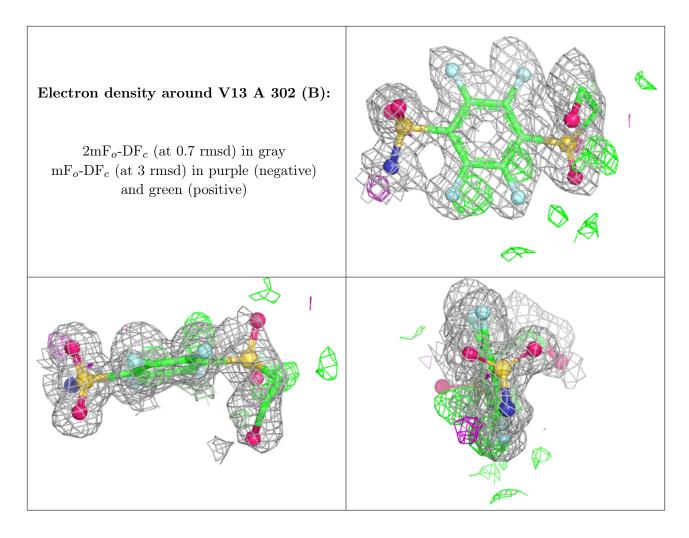
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B-factors}({f \AA}^2)$	Q<0.9
6	NA	A	305	1/1	0.99	0.34	25,25,25,25	0
2	ZN	A	301	1/1	1.00	0.05	9,9,9,9	0

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.

