

Full wwPDB X-ray Structure Validation Report (i)

Jan 14, 2021 – 12:19 PM GMT

PDB ID	:	6ZYN
Title	:	Structure of VIM-2 with 2-Mercaptomethyl-thiazolidine L-anti-1b
Authors	:	Hinchliffe, P.; Spencer, J.
Deposited on		
Resolution	:	1.40 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:

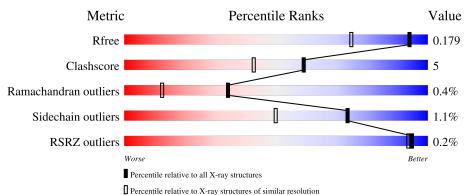
$\operatorname{MolProbity}$:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541 be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.16
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.16

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 1.40 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	1714(1.40-1.40)
Clashscore	141614	1812 (1.40-1.40)
Ramachandran outliers	138981	1763(1.40-1.40)
Sidechain outliers	138945	1762(1.40-1.40)
RSRZ outliers	127900	1674(1.40-1.40)

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	А	242	86%	9%	• 5%
1	В	242	86%	9%	• 5%



6ZYN

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 7774 atoms, of which 3587 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 Beta-lactamase VIM-2.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace	
1	А	231				Ν	Ο	\mathbf{S}	0	20	0
1	11	201	3592	1149	1771	310	361	1	Ū	20	
1	В	231	Total	\mathbf{C}	Η	Ν	Ο	\mathbf{S}	0	19	0
	D	201	3599	1152	1776	310	360	1	0	19	0

There are 4 discrepancies between the modelled and reference sequences:

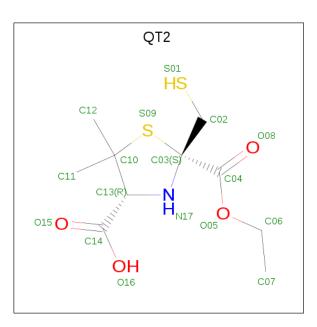
Chain	Residue	Modelled	Actual	Comment	Reference
А	25	GLY	-	expression tag	UNP Q9K2N0
А	26	PRO	-	expression tag	UNP Q9K2N0
В	25	GLY	-	expression tag	UNP Q9K2N0
В	26	PRO	-	expression tag	UNP Q9K2N0

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

\mathbb{N}	/lol	Chain	Residues	Atoms	ZeroOcc	AltConf
	2	В	3	Total Zn 3 3	0	0
	2	А	3	Total Zn 3 3	0	0

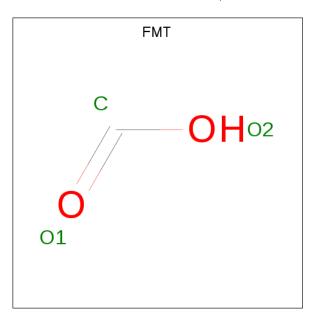
• Molecule 3 is (2 {S},4 {R})-2-ethoxycarbonyl-5,5-dimethyl-2-(sulfanylmethyl)-1,3-thiazolidi ne-4-carboxylic acid (three-letter code: QT2) (formula: C₁₀H₁₇NO₄S₂) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues		A	tom	S			ZeroOcc	AltConf
2	Δ	1	Total	С	Η	Ν	Ο	S	0	0
0	А	T	33	10	16	1	4	2	0	0
2	р	1	Total	С	Η	Ν	Ο	S	0	0
J	D		33	10	16	1	4	2		0

• Molecule 4 is FORMIC ACID (three-letter code: FMT) (formula: CH_2O_2).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	А	1	Total C 5 1	Н 2		0	0
4	А	1	Total C 5 1	Н 2	O 2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	В	1	Total 5		Н 2	0	0
4	В	1	Total 5		H 2	0	0

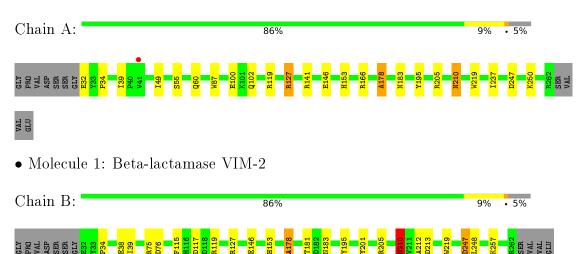
• Molecule 5 is water.

\mathbf{N}	ſol	Chain	Residues	Atoms	ZeroOcc	AltConf
	5	А	237	Total O 237 237	0	0
	5	В	254	Total O 254 254	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: Beta-lactamase VIM-2



4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 1 2 1	Depositor
Cell constants	67.48Å 79.17Å 78.07Å	Deperitor
a, b, c, α , β , γ	90.00° 90.50° 90.00°	Depositor
Resolution (Å)	55.59 - 1.40	Depositor
Resolution (A)	55.59 - 1.40	EDS
% Data completeness	99.4 (55.59-1.40)	Depositor
(in resolution range)	97.0(55.59-1.40)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.98 (at 1.40 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.12_2829	Depositor
D D	0.150 , 0.176	Depositor
R, R_{free}	0.159 , 0.179	DCC
R _{free} test set	3856 reflections $(4.81%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	11.8	Xtriage
Anisotropy	0.370	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.41, 30.8	EDS
L-test for twinning ²	$< L >=0.44, < L^2>=0.26$	Xtriage
	0.045 for -h,l,k	
Estimated twinning fraction	0.048 for -h,-l,-k	Xtriage
	0.189 for h,-k,-l	
$\mathbf{F}_o, \mathbf{F}_c$ correlation	0.98	EDS
Total number of atoms	7774	wwPDB-VP
Average B, all atoms $(Å^2)$	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.18% 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, QT2, FMT

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	Bond angles	
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.58	1/1924~(0.1%)	0.71	2/2631~(0.1%)
1	В	0.58	1/1918~(0.1%)	0.78	5/2623~(0.2%)
All	All	0.58	2/3842~(0.1%)	0.74	7/5254~(0.1%)

All (2) bond length outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
1	В	210	ASN	C-O	-5.59	1.12	1.23
1	А	55	SER	CB-OG	-5.48	1.35	1.42

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	В	247	ASP	CB-CG-OD1	8.92	126.33	118.30
1	В	210	ASN	N-CA-C	-7.71	90.17	111.00
1	А	127	ARG	NE-CZ-NH2	-6.25	117.17	120.30
1	А	247	ASP	CB-CG-OD2	-6.24	112.69	118.30
1	В	127	ARG	NE-CZ-NH2	-5.97	117.31	120.30
1	В	248[A]	LEU	CB-CG-CD1	5.87	120.98	111.00
1	В	248[B]	LEU	CB-CG-CD1	5.87	120.98	111.00

All (7) bond angle outliers are listed below:

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



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	1821	1771	1717	17	1
1	В	1823	1776	1734	16	1
2	А	3	0	0	0	1
2	В	3	0	0	0	1
3	А	17	16	0	2	0
3	В	17	16	0	0	0
4	А	6	4	2	0	0
4	В	6	4	2	0	0
5	А	237	0	0	12	2
5	В	254	0	0	10	3
All	All	4187	3587	3455	34	5

the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

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.

All (34) 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:38:GLU:OE2	5:B:401:HOH:O	1.91	0.87
1:B:205:ARG:NH1	5:B:404:HOH:O	2.07	0.86
1:B:247:ASP:HB3	5:B:600:HOH:O	1.77	0.82
1:B:75:ARG:NH1	5:B:403:HOH:O	2.07	0.81
1:B:213:ASP:OD1	5:B:402:HOH:O	1.98	0.79
1:A:250:LYS:NZ	5:A:402:HOH:O	2.17	0.78
1:B:181[B]:THR:HG22	5:B:409:HOH:O	1.86	0.75
1:A:102:GLN:NE2	5:A:404:HOH:O	2.20	0.70
1:A:166:ARG:NH1	5:A:406:HOH:O	2.25	0.69
1:A:100:GLU:OE2	5:A:401:HOH:O	2.11	0.68
1:A:146[A]:GLU:HG2	5:A:492:HOH:O	1.94	0.68
1:B:257:LYS:NZ	5:B:406:HOH:O	2.17	0.67
1:A:205:ARG:NE	5:A:407:HOH:O	2.29	0.65
3:A:304:QT2:C07	5:A:421:HOH:O	2.46	0.64
1:B:117[B]:ASP:OD2	5:B:405:HOH:O	2.15	0.64
1:A:205:ARG:NH2	5:A:411:HOH:O	2.36	0.58
1:A:146[B]:GLU:HG2	5:A:541:HOH:O	2.06	0.54
1:B:115:PHE:HE2	1:B:146[B]:GLU:HG3	1.72	0.54
1:A:127:ARG:HD2	5:A:418:HOH:O	2.10	0.51
1:B:119:ARG:NH1	1:B:195[A]:TYR:OH	2.44	0.50
1:A:32:GLU:OE2	5:A:403:HOH:O	2.20	0.50
1:A:119:ARG:NH1	1:A:195[A]:TYR:OH	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:146[A]:GLU:HG2	5:B:561:HOH:O	2.13	0.48
1:A:210:ASN:HB2	3:A:304:QT2:C14	2.44	0.47
1:A:60:GLN:HB3	1:A:87:TRP:CH2	2.51	0.45
1:A:141:ARG:NH2	5:A:408:HOH:O	2.31	0.44
1:B:76:ASP:OD2	5:B:407:HOH:O	2.20	0.44
1:A:178:ALA:HB1	1:A:219:TRP:CD1	2.53	0.44
1:B:178:ALA:HB1	1:B:219:TRP:CD1	2.54	0.43
1:B:34:PRO:HB2	1:B:39:ILE:HD11	2.00	0.43
1:A:49:ILE:HD13	1:A:237:ILE:HD11	2.00	0.42
1:A:34:PRO:HB2	1:A:39:ILE:HD11	2.00	0.42
1:B:210:ASN:OD1	1:B:212:ALA:HB2	2.20	0.42

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All (5) 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	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:HIS:HE2	2:A:303:ZN:ZN[4_557]	1.22	0.38
5:B:615:HOH:O	5:B:615:HOH:O[2_558]	1.85	0.35
1:B:153:HIS:HE2	2:B:303:ZN:ZN[4_447]	1.26	0.34
5:A:575:HOH:O	5:B:592:HOH:O[3_554]	2.01	0.19
5:A:517:HOH:O	5:B:647:HOH:O[4_457]	2.17	0.03

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	А	249/242~(103%)	246~(99%)	2(1%)	1~(0%)	34 12
1	В	248/242~(102%)	244 (98%)	3 (1%)	1 (0%)	34 12
All	All	497/484~(103%)	490 (99%)	5(1%)	2(0%)	34 12

All (2) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
1	А	178	ALA
1	В	178	ALA

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	200/193~(104%)	198~(99%)	2(1%)	76 53
1	В	199/193~(103%)	197~(99%)	2(1%)	76 53
All	All	399/386~(103%)	395~(99%)	4 (1%)	73 53

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

Mol	Chain	Res	Type
1	А	183	ASN
1	А	210	ASN
1	В	183	ASN
1	В	210	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	210	ASN

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 12 ligands modelled in this entry, 6 are monoatomic - leaving 6 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	\mathbf{ths}	Bond angles		
	Type	Cham	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
4	FMT	А	305	2	$0,\!2,\!2$	0.00	-	$0,\!1,\!1$	0.00	-
4	FMT	В	305	2	0,2,2	0.00	-	$0,\!1,\!1$	0.00	-
4	FMT	В	306	2	$0,\!2,\!2$	0.00	-	$0,\!1,\!1$	0.00	-
3	QT2	В	304	2	$12,\!17,\!17$	2.42	5 (41%)	$12,\!26,\!26$	2.81	5 (41%)
3	QT2	А	304	2	12,17,17	2.83	8 (66%)	12,26,26	2.68	<mark>5 (41%)</mark>
4	FMT	А	306	2	$0,\!2,\!2$	0.00	-	$0,\!1,\!1$	0.00	-

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
3	QT2	А	304	2	-	4/9/33/33	0/1/1/1
3	QT2	В	304	2	-	3/9/33/33	0/1/1/1

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
3	А	304	QT2	C02-S01	4.65	1.91	1.81
3	В	304	QT2	C03-N17	-4.61	1.39	1.45
3	А	304	QT2	C02-C03	-4.40	1.50	1.53
3	В	304	QT2	C02-C03	4.09	1.57	1.53
3	В	304	QT2	C12-C10	-3.74	1.42	1.53
3	А	304	QT2	C03-N17	-3.68	1.41	1.45

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Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\operatorname{\AA})$
3	А	304	QT2	C13-N17	-3.38	1.42	1.46
3	А	304	QT2	C03-S09	-3.08	1.79	1.85
3	В	304	QT2	C11-C10	-2.87	1.45	1.53
3	А	304	QT2	C10-S09	2.78	1.87	1.84
3	В	304	QT2	C13-N17	-2.12	1.44	1.46
3	А	304	QT2	O05-C04	-2.09	1.28	1.33
3	А	304	QT2	C11-C10	-2.06	1.47	1.53

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All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
3	А	304	QT2	C03-C02-S01	7.00	122.07	114.19
3	В	304	QT2	C03-C02-S01	6.84	121.88	114.19
3	В	304	QT2	C02-C03-C04	-4.38	99.98	110.62
3	А	304	QT2	C11-C10-S09	-3.39	105.10	109.91
3	А	304	QT2	C02-C03-C04	-2.74	103.96	110.62
3	В	304	QT2	C12-C10-C11	-2.73	106.34	110.78
3	А	304	QT2	C04-C03-N17	2.50	115.74	110.39
3	В	304	QT2	C04-C03-N17	2.46	115.67	110.39
3	А	304	QT2	C06-O05-C04	2.43	121.58	116.66
3	В	304	QT2	O05-C04-C03	2.34	113.92	111.76

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	Atoms
3	А	304	QT2	C07-C06-O05-C04
3	В	304	QT2	C02-C03-C04-O05
3	А	304	QT2	C02-C03-C04-O05
3	А	304	QT2	C02-C03-C04-O08
3	В	304	QT2	C02-C03-C04-O08
3	А	304	QT2	N17-C03-C04-O08
3	В	304	QT2	C07-C06-O05-C04

There are no ring outliers.

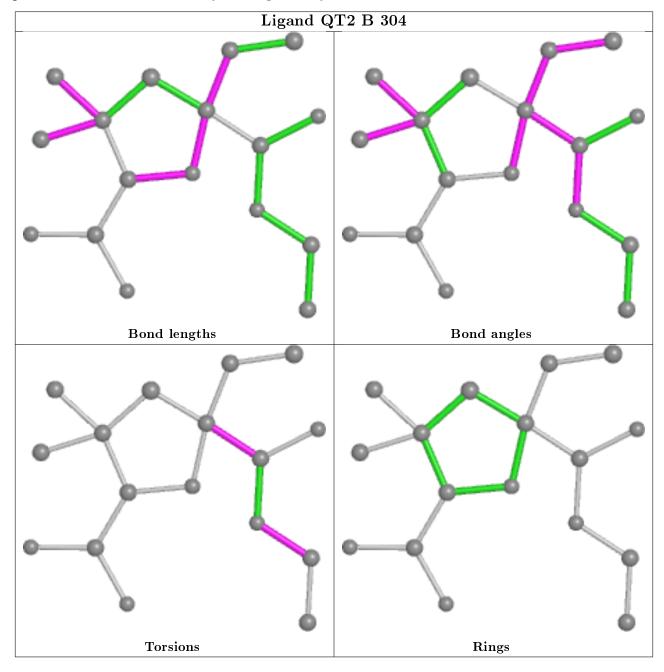
1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	304	QT2	2	0

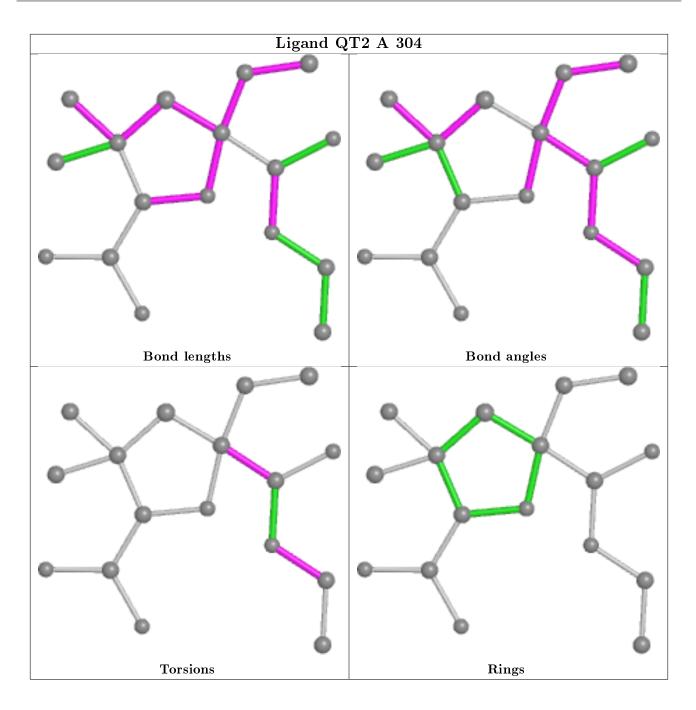
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths,



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, 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 $>$	$\# RSRZ {>}2$	$\mathbf{OWAB}(\mathbf{\AA}^2)$	$Q{<}0.9$
1	А	231/242 (95%)	-0.77	1 (0%) 92 91	8,13,44,66	0
1	В	$231/242 \ (95\%)$	-0.83	0 100 100	7, 13, 40, 50	0
All	All	462/484~(95%)	-0.80	1 (0%) 95 93	7, 13, 43, 66	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	А	41	VAL	2.3	

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	\mathbf{RSR}	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$Q{<}0.9$
3	QT2	В	304	17/17	0.95	0.13	$18,\!24,\!29,\!29$	0
4	FMT	В	306	3/3	0.98	0.06	17,18,21,22	0
3	QT2	А	304	17/17	0.98	0.10	17,22,27,27	0
4	FMT	А	306	3/3	0.98	0.05	$19,\!19,\!23,\!23$	0

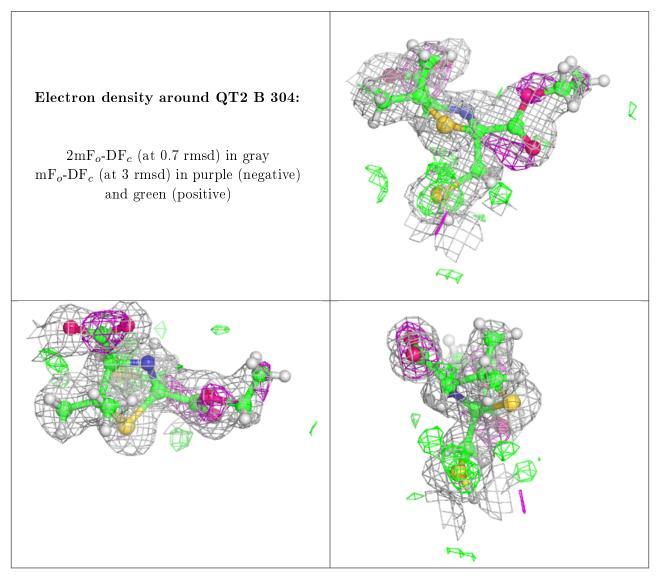
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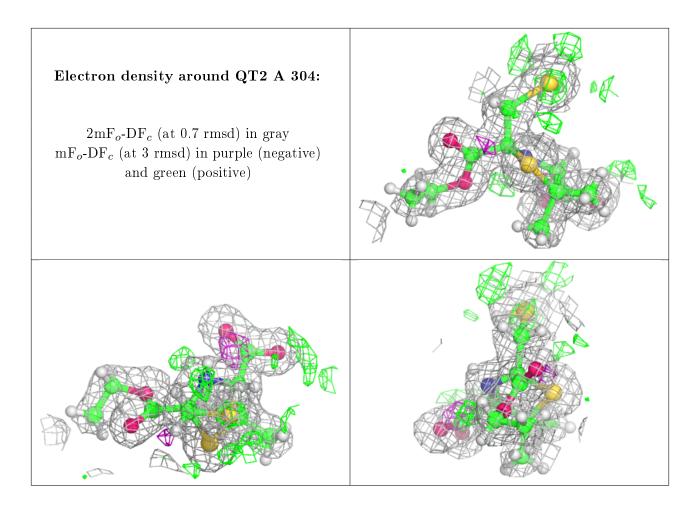
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$Q{<}0.9$
4	FMT	В	305	3/3	0.99	0.09	$15,\!16,\!18,\!19$	0
4	FMT	А	305	3/3	0.99	0.06	$16,\!16,\!19,\!19$	0
2	ZN	В	301	1/1	1.00	0.05	$14,\!14,\!14,\!14$	0
2	ZN	В	303	1/1	1.00	0.04	$15,\!15,\!15,\!15$	0
2	ZN	А	303	1/1	1.00	0.04	$14,\!14,\!14,\!14$	0
2	ZN	В	302	1/1	1.00	0.05	9,9,9,9	0
2	ZN	А	302	1/1	1.00	0.06	$10,\!10,\!10,\!10$	0
2	ZN	А	301	1/1	1.00	0.04	$13,\!13,\!13,\!13$	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.

