

wwPDB X-ray Structure Validation Summary Report (i)

Jun 7, 2020 – 12:29 am BST

PDB ID : 4X5Y

Title: Menin in complex with MI-503

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Deposited on : 2014-12-06

Resolution : 1.59 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 : 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS: 2.11

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)

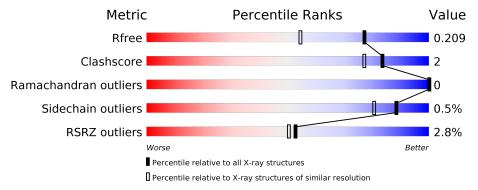
Validation Pipeline (wwPDB-VP) : 2.11

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 1.59 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
R_{free}	130704	3398 (1.60-1.60)
Clashscore	141614	3665 (1.60-1.60)
Ramachandran outliers	138981	3564 (1.60-1.60)
Sidechain outliers	138945	3563 (1.60-1.60)
RSRZ outliers	127900	3321 (1.60-1.60)

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	
,		400	3%	
1	Α	489	91%	5% •



2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 4065 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 Menin.

Mol	Chain	Residues		Atoms			ZeroOcc	AltConf	Trace	
1	Λ	468	Total	С	N	О	S	0	9	9
1	A	400	3641	2334	619	673	15	0	Δ	

There are 70 discrepancies between the modelled and reference sequences:

A A	-4	OT 37			Reference
Α		GLY	-	expression tag	UNP O00255
**	-3	GLY	-	expression tag	UNP O00255
A	-2	SER	-	expression tag	UNP O00255
A	-1	SER	-	expression tag	UNP O00255
A	0	SER	-	expression tag	UNP O00255
A	?	-	ILE	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	THR	deletion	UNP O00255
A	?	-	ASN	deletion	UNP O00255
A	?	-	VAL	deletion	UNP O00255
A	?	-	PRO	$\operatorname{deletion}$	UNP O00255
A	?	-	GLU	$\operatorname{deletion}$	UNP 000255
A	?	-	LEU	$\operatorname{deletion}$	UNP O00255
A	?	-	THR	deletion	UNP O00255
A	?	-	PHE	deletion	UNP 000255
A	?	-	GLN	deletion	UNP O00255
A	?	-	PRO	$\operatorname{deletion}$	UNP 000255
A	?	-	SER	$\operatorname{deletion}$	UNP O00255
A	?	-	PRO	$\operatorname{deletion}$	UNP O00255
A	?	-	ALA	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	ASP	deletion	UNP 000255
A	?	-	PRO	$\operatorname{deletion}$	UNP O00255
A	?	-	PRO	$\operatorname{deletion}$	UNP 000255
A	?	-	GLY	$\operatorname{deletion}$	UNP 000255
A	?	-	GLU	$\operatorname{deletion}$	UNP O00255
A	?	-	GLU	$\operatorname{deletion}$	UNP 000255



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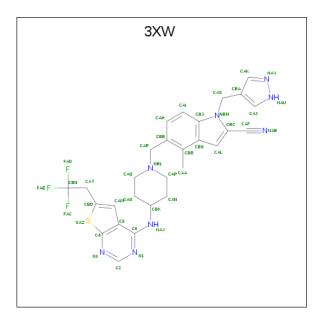
Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	ARG	$\operatorname{deletion}$	UNP O00255
A	?	-	PRO	deletion	UNP 000255
A	?	-	GLY	deletion	UNP 000255
A	?	-	GLU	deletion	UNP 000255
A	?	-	GLN	$\operatorname{deletion}$	UNP 000255
A	?	-	SER	$\operatorname{deletion}$	UNP 000255
A	?	-	GLN	$\operatorname{deletion}$	UNP 000255
A	?	-	GLY	$\operatorname{deletion}$	UNP 000255
A	?	-	THR	$\operatorname{deletion}$	UNP 000255
A	?	-	GLN	$\operatorname{deletion}$	UNP 000255
A	428	PRO	PRO	linker	UNP 000255
A	429	THR	THR	linker	UNP 000255
A	430	PRO	PRO	linker	UNP 000255
A	431	VAL	VAL	linker	UNP 000255
A	432	LEU	LEU	linker	UNP 000255
A	433	HIS	HIS	linker	UNP 000255
A	434	VAL	VAL	linker	UNP 000255
A	435	GLY	GLY	linker	UNP 000255
A	436	TRP	TRP	linker	UNP 000255
A	437	ALA	ALA	linker	UNP 000255
A	438	THR	THR	linker	UNP 000255
A	439	PHE	PHE	linker	UNP 000255
A	440	LEU	LEU	linker	UNP 000255
A	441	VAL	VAL	linker	UNP 000255
A	442	GLN	GLN	linker	UNP 000255
A	443	SER	SER	linker	UNP 000255
A	444	LEU	LEU	linker	UNP 000255
A	445	GLY	GLY	linker	UNP 000255
A	446	ARG	ARG	linker	UNP O00255
A	447	PHE	PHE	linker	UNP O00255
A	448	GLU	GLU	linker	UNP O00255
A	449	GLY	GLY	linker	UNP O00255
A	450	GLN	GLN	linker	UNP O00255
A	451	VAL	VAL	linker	UNP O00255
A	452	ARG	ARG	linker	UNP 000255
A	453	GLN	GLN	linker	UNP 000255
A	454	LYS	LYS	linker	UNP O00255
A	455	VAL	VAL	linker	UNP 000255
A	456	ARG	ARG	linker	UNP O00255
A	457	ILE	ILE	linker	UNP 000255
A	458	VAL	VAL	linker	UNP 000255
A	459	SER	SER	linker	UNP O00255



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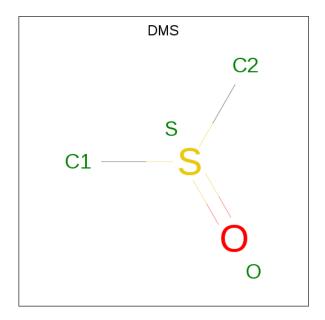
Chain	Residue	Modelled	Actual	Comment	Reference
A	541	ALA	THR	engineered mutation	UNP O00255

• Molecule 2 is 4-methyl-1-(1H-pyrazol-4-ylmethyl)-5-[(4-{[6-(2,2,2-trifluoroethyl)thieno[2,3-d]pyrimidin-4-yl]amino}piperidin-1-yl)methyl]-1H-indole-2-carbonitrile (three-letter code: 3XW) (formula: $C_{28}H_{27}F_3N_8S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total 40	C 28	F 3	N 8	S 1	0	0

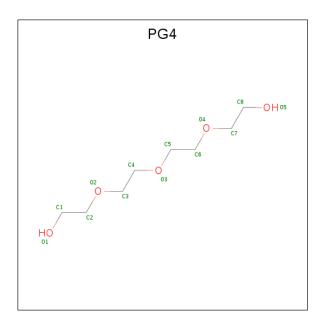
• Molecule 3 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: C₂H₆OS).





Mol	Chain	Residues	Atom	ıs	ZeroOcc	AltConf
3	A	1	Total C 4 2	O S 1 1	0	0
3	A	1	Total C 4 2	O S 1 1	0	0
3	A	1	Total C 4 2	O S 1 1	0	0

 \bullet Molecule 4 is TETRAETHYLENE GLYCOL (three-letter code: PG4) (formula: $\mathrm{C_8H_{18}O_5}).$



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total 13	C 8	O 5	0	0

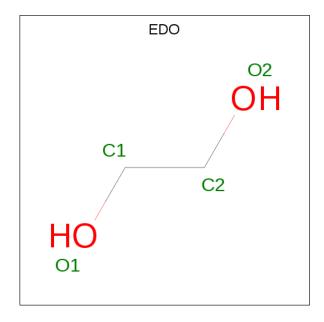
 \bullet Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$





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

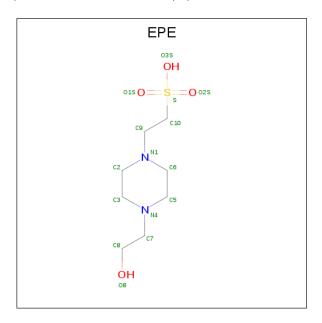
 \bullet Molecule 6 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\mathrm{C_2H_6O_2}).$



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total 4	C 2	O 2	0	0



• Molecule 7 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (three-letter code: EPE) (formula: $C_8H_{18}N_2O_4S$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
7	Λ	1	Total	С	N	О	S	0	0
'	Α	1	15	8	2	4	1	0	U

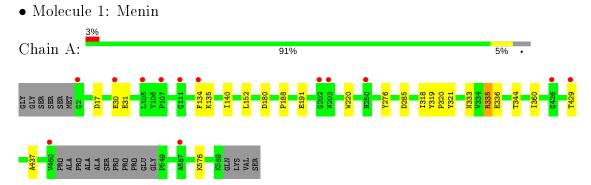
• Molecule 8 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	325	Total O 325 325	0	0



3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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.





4 Data and refinement statistics (i)

Property	Value	Source	
Space group	P 21 21 21	Depositor	
Cell constants	48.38Å 79.73Å 124.75Å	Danagitan	
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor	
Resolution (Å)	37.97 - 1.59	Depositor	
Resolution (A)	37.97 - 1.59	EDS	
% Data completeness	99.9 (37.97-1.59)	Depositor	
(in resolution range)	99.9 (37.97-1.59)	EDS	
R_{merge}	0.07	Depositor	
R_{sym}	(Not available)	Depositor	
$< I/\sigma(I) > 1$	2.16 (at 1.59Å)	Xtriage	
Refinement program	REFMAC 5.7.0032	Depositor	
P. P.	0.172 , 0.205	Depositor	
R, R_{free}	0.182 , 0.209	DCC	
R_{free} test set	3330 reflections (5.07%)	wwPDB-VP	
Wilson B-factor (Å ²)	19.1	Xtriage	
Anisotropy	0.063	Xtriage	
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.38 , 48.0	EDS	
L-test for twinning ²	$ < L > = 0.47, < L^2> = 0.30$	Xtriage	
Estimated twinning fraction	No twinning to report.	Xtriage	
F_o, F_c correlation	0.96	EDS	
Total number of atoms	4065	wwPDB-VP	
Average B, all atoms (Å ²)	23.0	wwPDB-VP	

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.22% 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: EDO, PG4, DMS, SO4, 3XW, EPE

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	Bo	nd angles
	Chain	RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.82	0/3722	0.86	$3/5056 \ (0.1\%)$

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	285	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	A	335	ARG	NE-CZ-NH1	5.43	123.02	120.30
1	A	17	ASP	CB-CG-OD1	5.05	122.85	118.30

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.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3641	0	3550	18	0
2	A	40	0	27	0	0
3	A	12	0	18	0	0
4	A	13	0	18	0	0
5	A	15	0	0	1	0
6	A	4	0	6	2	0
7	A	15	0	18	0	0
8	A	325	0	0	2	0



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Mol	Chain	Non-H	H(model)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
All	All	4065	0	3637	18	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 2.

The worst 5 of 18 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash	
Atom-1	Atom-2	${f distance} ({f \AA})$	Olash overlap (Å) 0.89 0.62 0.59 0.59 0.57	
1:A:333:ASN:OD1	1:A:336[A]:GLU:OE1	1.89	0.89	
1:A:335:ARG:CZ	1:A:336[B]:GLU:OE2	2.48	0.62	
1:A:335:ARG:NH2	1:A:336[B]:GLU:OE2	2.35	0.59	
1:A:135:LYS:HE2	6:A:609:EDO:H11	1.85	0.59	
1:A:321:TYR:HB2	1:A:344:THR:HG22	1.86	0.57	

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	466/489 (95%)	457 (98%)	9 (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	A	375/410 (92%)	373 (100%)	2 (0%)	88 80		

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

Mol	Chain	Res	Type
1	A	276	TYR
1	A	429	THR

Some 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 carbohydrates in this entry.

5.6 Ligand geometry (i)

10 ligands are modelled in this entry.

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).

Mal	Mol Type	Chain	Dec	Link	В	Bond lengths Bond angles			gles	
MIOI	Type	Chain	m Res	Lilik	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
5	SO4	A	604	_	4,4,4	0.44	0	6,6,6	0.19	0
5	SO4	A	605	_	4,4,4	0.50	0	6,6,6	0.41	0
3	DMS	A	608	-	3,3,3	0.39	0	3,3,3	0.41	0
6	EDO	A	609	_	3,3,3	0.53	0	2,2,2	0.16	0



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
10101	Will Type Chain	nes	Lilik	Counts	RMSZ	Counts	RMSZ	# Z > 2		
2	3XW	A	601	-	38,45,45	3.69	15 (39%)	39,66,66	2.02	9 (23%)
4	PG4	A	603	-	12,12,12	0.70	0	11,11,11	1.08	1 (9%)
3	DMS	A	602	-	3,3,3	0.40	0	3,3,3	0.87	0
7	EPE	A	610	_	15,15,15	2.42	2 (13%)	18,20,20	3.12	10 (55%)
3	DMS	A	607	-	3,3,3	0.58	0	3,3,3	0.44	0
5	SO4	A	606	-	4,4,4	0.25	0	6,6,6	0.18	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
2	3XW	A	601	_	-	0/13/29/29	0/6/6/6
7	EPE	A	610	-	-	4/9/19/19	0/1/1/1
4	PG4	A	603	_	-	6/10/10/10	-
6	EDO	A	609	_	-	1/1/1/1	-

The worst 5 of 17 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}(\operatorname{\AA})$
2	A	601	3XW	CBD-SAZ	-9.94	1.55	1.74
2	A	601	3XW	NAY-NAU	-9.51	1.19	1.37
7	A	610	EPE	C10-S	-8.91	1.64	1.77
2	A	601	3XW	CAT-CBN	7.64	1.59	1.49
2	A	601	3XW	CBC-CAF	-7.25	1.37	1.44

The worst 5 of 20 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
2	A	601	3XW	N3-C2-N1	-6.82	118.03	128.68
7	A	610	EPE	C5-N4-C3	6.74	123.99	108.83
7	A	610	EPE	C6-N1-C2	6.46	123.36	108.83
2	A	601	3XW	C2-N1-C6	4.92	120.81	116.59
7	A	610	EPE	C7-N4-C3	4.02	121.52	111.23

There are no chirality outliers.

5 of 11 torsion outliers are listed below:



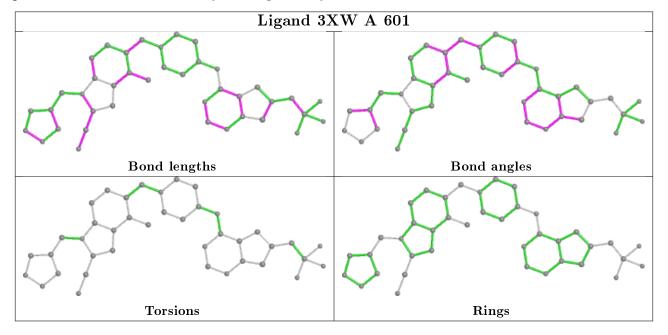
Mol	Chain	Res	Type	Atoms
7	A	610	EPE	C8-C7-N4-C3
7	A	610	EPE	C9-C10-S-O1S
4	A	603	PG4	O1-C1-C2-O2
6	A	609	EDO	O1-C1-C2-O2
7	A	610	EPE	C10-C9-N1-C2

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	605	SO4	1	0
6	A	609	EDO	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		$OWAB(Å^2)$	Q < 0.9
1	A	468/489 (95%)	-0.07	13 (2%) 53 50	13, 20, 39, 55	0

The worst 5 of 13 RSRZ outliers are listed below:

Mol	Chain	${f Res}$	Type	RSRZ
1	A	250	HIS	4.1
1	A	202	GLY	3.1
1	A	30	GLU	2.6
1	A	429	THR	2.6
1	A	111	GLY	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 carbohydrates 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.

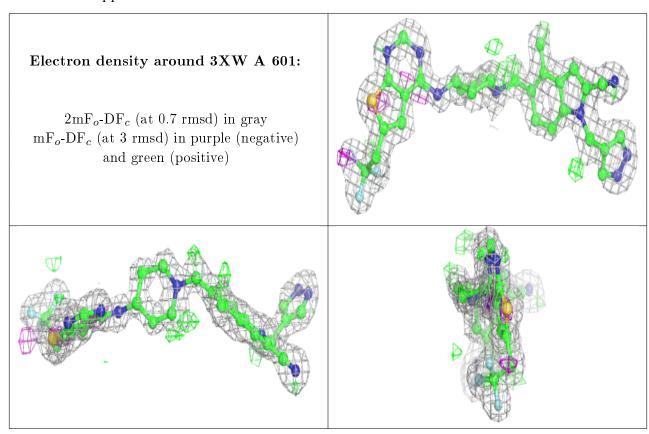
Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B-factors({ m \AA}^2)}$	Q<0.9
3	DMS	A	602	4/4	0.78	0.28	37,42,43,44	0
6	EDO	A	609	4/4	0.85	0.18	47,49,50,50	0



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Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B\text{-factors}}({f \AA}^2)$	Q < 0.9
4	PG4	A	603	13/13	0.86	0.19	31,36,41,43	0
5	SO4	A	604	5/5	0.86	0.31	57,62,67,68	0
5	SO4	A	606	5/5	0.87	0.19	38,38,41,42	5
2	3XW	A	601	40/40	0.89	0.14	17,22,32,34	40
7	EPE	A	610	15/15	0.90	0.20	27,35,46,50	15
5	SO4	A	605	5/5	0.92	0.15	57,60,64,67	0
3	DMS	A	608	4/4	0.93	0.13	26,26,29,30	4
3	DMS	A	607	4/4	0.96	0.11	43,43,45,47	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.

