



Full wwPDB X-ray Structure Validation Report ⓘ

May 22, 2020 – 04:24 pm BST

PDB ID : 6B41
Title : Menin bound to M-525
Authors : Stuckey, J.A.
Deposited on : 2017-09-25
Resolution : 2.61 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 ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) 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

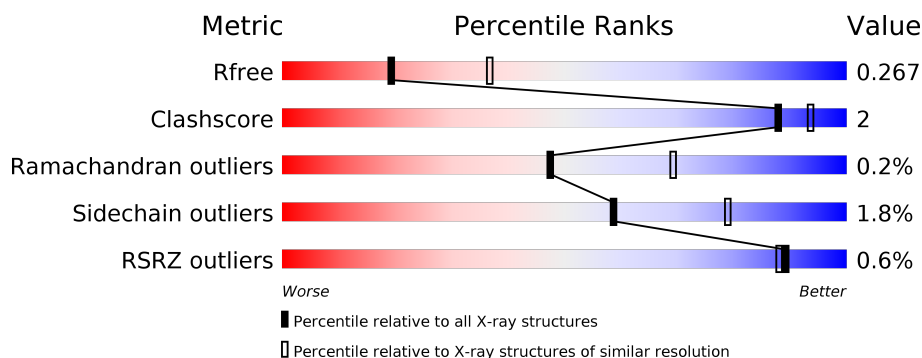
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.61 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3797 (2.64-2.60)
Clashscore	141614	4168 (2.64-2.60)
Ramachandran outliers	138981	4093 (2.64-2.60)
Sidechain outliers	138945	4093 (2.64-2.60)
RSRZ outliers	127900	3731 (2.64-2.60)

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 $\leq 5\%$. 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	550	<div> <div></div> <div>81%</div> <div>6%</div> <div>13%</div> </div>

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	7PR	A	705	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4054 atoms, of which 79 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	A	481	Total	C	N	O	S	0	1	0
			3717	2388	624	691	14			

There are 61 discrepancies between the modelled and reference sequences:

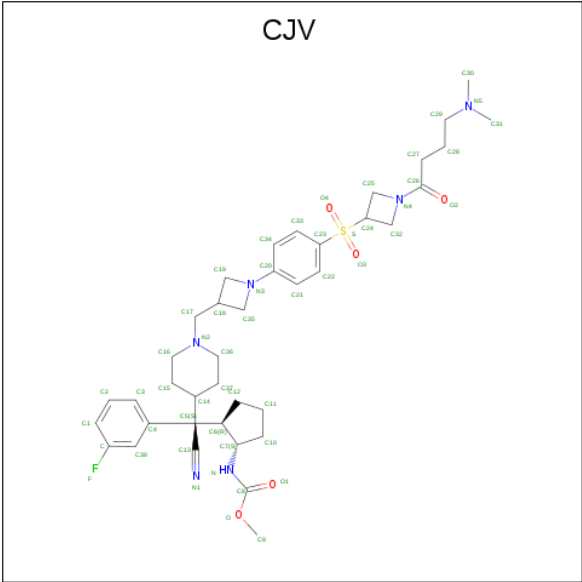
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	SER	-	expression tag	UNP O00255
A	?	-	ARG	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	ALA	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	ALA	deletion	UNP O00255
A	?	-	ALA	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	ALA	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	TRP	deletion	UNP O00255
A	?	-	GLY	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	ALA	deletion	UNP O00255
A	?	-	ARG	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	GLY	deletion	UNP O00255
A	?	-	ARG	deletion	UNP O00255
A	?	-	ARG	deletion	UNP O00255
A	?	-	ARG	deletion	UNP O00255
A	?	-	GLY	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	ARG	deletion	UNP O00255
A	?	-	ARG	deletion	UNP O00255

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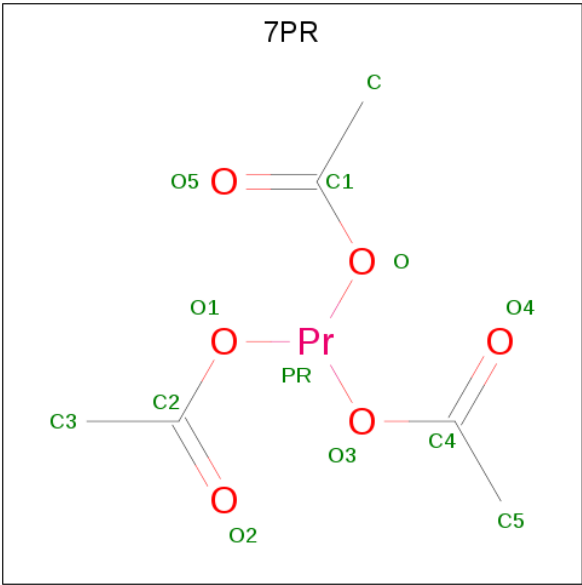
Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	GLU	deletion	UNP O00255
A	?	-	SER	deletion	UNP O00255
A	?	-	LYS	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	GLU	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	LYS	deletion	UNP O00255
A	?	-	LYS	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	ALA	deletion	UNP O00255
A	?	-	LEU	deletion	UNP O00255
A	?	-	ASP	deletion	UNP O00255
A	?	-	LYS	deletion	UNP O00255
A	?	-	GLY	deletion	UNP O00255
A	?	-	LEU	deletion	UNP O00255
A	?	-	GLY	deletion	UNP O00255
A	?	-	THR	deletion	UNP O00255
A	?	-	GLY	deletion	UNP O00255
A	?	-	GLN	deletion	UNP O00255
A	?	-	GLY	deletion	UNP O00255
A	?	-	ALA	deletion	UNP O00255
A	?	-	VAL	deletion	UNP O00255
A	?	-	SER	deletion	UNP O00255
A	?	-	GLY	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	ARG	deletion	UNP O00255
A	?	-	LYS	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255
A	?	-	PRO	deletion	UNP O00255

- Molecule 2 is methyl {(1S,2R)-2-[(S)-cyano[1-({1-[4-({1-[4-(dimethylamino)butanoyl]azetidin-3-yl}sulfonyl)phenyl]azetidin-3-yl)methyl]piperidin-4-yl](3-fluorophenyl)methyl]cyclopentyl}carbamate (three-letter code: CJV) (formula: C₃₉H₅₃FN₆O₅S).



Mol	Chain	Residues	Atoms							ZeroOcc	AltConf
			Total	C	F	H	N	O	S		
2	A	1	104	39	1	52	6	5	1	0	0

- Molecule 3 is praseodymium triacetate (three-letter code: 7PR) (formula: C₆H₉O₆Pr).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	O	Pr			
3	A	1	Total 26	12	12	2		0	1
3	A	1	Total 22	6	9	6	1	0	0
3	A	1	Total 22	6	9	6	1	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	H	O	Pr	0	0
			22	6	9	6	1		

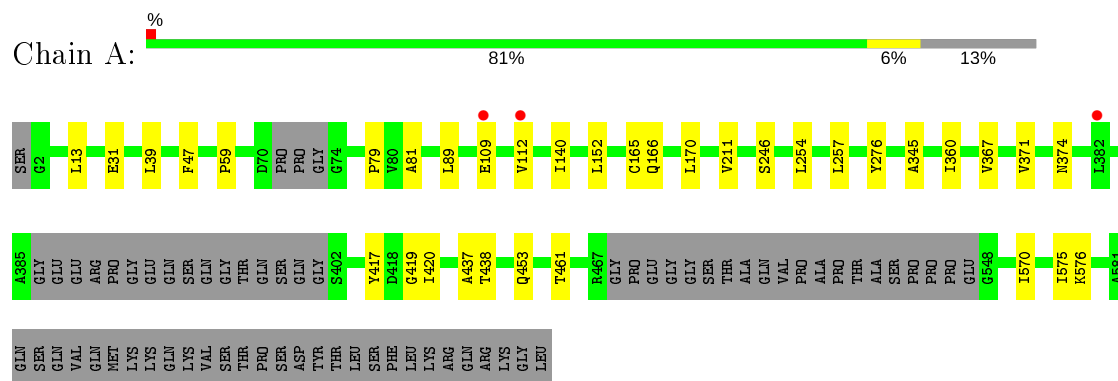
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	141	Total	O	0	0
			141	141		

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.

• Molecule 1: Menin



4 Data and refinement statistics

Property	Value	Source
Space group	I 41	Depositor
Cell constants a, b, c, α , β , γ	153.92Å 153.92Å 81.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.67 – 2.61 43.44 – 2.61	Depositor EDS
% Data completeness (in resolution range)	88.2 (48.67-2.61) 88.2 (43.44-2.61)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.49 (at 2.61Å)	Xtriage
Refinement program	BUSTER 2.10.3	Depositor
R, R_{free}	0.209 , 0.252 0.222 , 0.267	Depositor DCC
R_{free} test set	1285 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	38.6	Xtriage
Anisotropy	0.202	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 22.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.41$, $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	0.287 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4054	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.92% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: CJV, 7PR

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	0.51	0/3804	0.68	0/5177

There are no bond length outliers.

There are no bond angle outliers.

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	3717	0	3635	14	0
2	A	52	52	0	0	0
3	A	65	27	0	1	0
4	A	141	0	0	0	0
All	All	3975	79	3635	15	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.

All (15) 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:702[A]:7PR:C	3:A:702[A]:7PR:C5	2.74	0.66
1:A:140:ILE:O	1:A:152:LEU:HA	2.02	0.58
1:A:345:ALA:HB1	1:A:419:GLY:HA3	1.87	0.57
1:A:367:VAL:HA	1:A:371:VAL:HB	1.87	0.56
1:A:165:CYS:HB3	1:A:170:LEU:HB2	1.86	0.56
1:A:13:LEU:HB2	1:A:81:ALA:HB3	1.91	0.52
1:A:39:LEU:HD22	1:A:89:LEU:HB3	1.92	0.52
1:A:31:GLU:HG3	1:A:166:GLN:HE21	1.75	0.51
1:A:417:TYR:HA	1:A:420:ILE:HD12	1.94	0.49
1:A:109:GLU:HG3	1:A:112:VAL:HB	1.95	0.48
1:A:437:ALA:HB1	1:A:576:LYS:HG2	2.00	0.44
1:A:47:PHE:HB2	1:A:79:PRO:HG3	2.01	0.43
1:A:570:ILE:HG23	1:A:575:ILE:HD12	2.00	0.43
1:A:360:ILE:HD12	1:A:360:ILE:HA	1.96	0.42
1:A:254:LEU:HA	1:A:257:LEU:HD12	2.03	0.40

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	474/550 (86%)	449 (95%)	24 (5%)	1 (0%)	47 69

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	59	PRO

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	387/461 (84%)	380 (98%)	7 (2%)	59 79

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	211	VAL
1	A	246	SER
1	A	276	TYR
1	A	374	ASN
1	A	438	THR
1	A	453	GLN
1	A	461	THR

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

Mol	Chain	Res	Type
1	A	339	GLN
1	A	453	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

6 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).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	7PR	A	704	-	6,12,12	0.17	0	6,15,15	0.59	0
3	7PR	A	702[A]	-	6,12,12	0.28	0	6,15,15	0.58	0
3	7PR	A	703	-	6,12,12	0.17	0	6,15,15	0.75	0
3	7PR	A	705	-	6,12,12	0.18	0	6,15,15	0.63	0
2	CJV	A	701	1	52,57,57	2.50	14 (26%)	57,83,83	2.61	21 (36%)
3	7PR	A	702[B]	-	6,12,12	0.18	0	6,15,15	0.61	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	CJV	A	701	1	-	22/50/93/93	0/6/6/6

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	701	CJV	C23-S	-13.03	1.63	1.76
2	A	701	CJV	C32-N4	5.19	1.51	1.47
2	A	701	CJV	C3-C4	4.19	1.46	1.39
2	A	701	CJV	C25-N4	3.49	1.50	1.47
2	A	701	CJV	C26-N4	3.21	1.41	1.35
2	A	701	CJV	O-C8	2.89	1.39	1.34
2	A	701	CJV	C5-C4	2.81	1.56	1.52
2	A	701	CJV	C34-C20	2.73	1.44	1.39
2	A	701	CJV	C24-S	-2.55	1.72	1.78
2	A	701	CJV	C8-N	2.53	1.40	1.34
2	A	701	CJV	F-C	-2.37	1.30	1.36
2	A	701	CJV	C35-N3	2.34	1.49	1.47
2	A	701	CJV	C22-C23	2.25	1.42	1.38
2	A	701	CJV	O1-C8	2.05	1.25	1.21

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	701	CJV	C24-C32-N4	-7.00	84.01	88.01
2	A	701	CJV	C24-C25-N4	-6.77	84.14	88.01
2	A	701	CJV	C9-O-C8	6.36	123.18	115.66
2	A	701	CJV	C18-C17-N2	5.42	122.28	114.65
2	A	701	CJV	O3-S-C24	-5.06	102.77	108.35
2	A	701	CJV	O4-S-C24	-4.74	103.12	108.35
2	A	701	CJV	C21-C22-C23	3.76	123.34	119.45
2	A	701	CJV	C6-C5-C14	3.71	118.88	109.91
2	A	701	CJV	C22-C23-S	3.67	122.61	119.44
2	A	701	CJV	C10-C7-N	-3.43	107.20	112.73
2	A	701	CJV	O-C8-O1	-3.40	119.58	124.58
2	A	701	CJV	C28-C27-C26	2.99	120.74	112.67
2	A	701	CJV	O-C8-N	2.90	115.90	110.80
2	A	701	CJV	C23-S-C24	2.80	108.96	104.62
2	A	701	CJV	C27-C26-N4	-2.66	113.85	118.01
2	A	701	CJV	C36-N2-C17	2.53	118.53	111.20
2	A	701	CJV	O4-S-C23	2.52	110.63	108.18
2	A	701	CJV	C33-C23-C22	-2.48	116.98	120.44
2	A	701	CJV	C34-C20-N3	-2.46	117.99	121.38
2	A	701	CJV	C34-C33-C23	2.27	121.79	119.45
2	A	701	CJV	O3-S-O4	2.19	120.72	118.71

There are no chirality outliers.

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	701	CJV	O1-C8-O-C9
2	A	701	CJV	N-C8-O-C9
2	A	701	CJV	C15-C14-C5-C6
2	A	701	CJV	C37-C14-C5-C6
2	A	701	CJV	C15-C14-C5-C13
2	A	701	CJV	C37-C14-C5-C13
2	A	701	CJV	C15-C14-C5-C4
2	A	701	CJV	C37-C14-C5-C4
2	A	701	CJV	C18-C17-N2-C36
2	A	701	CJV	C25-C24-S-C23
2	A	701	CJV	C32-C24-S-C23
2	A	701	CJV	C25-C24-S-O4
2	A	701	CJV	C32-C24-S-O4
2	A	701	CJV	C25-C24-S-O3
2	A	701	CJV	C32-C24-S-O3
2	A	701	CJV	O2-C26-N4-C25
2	A	701	CJV	C26-C27-C28-C29

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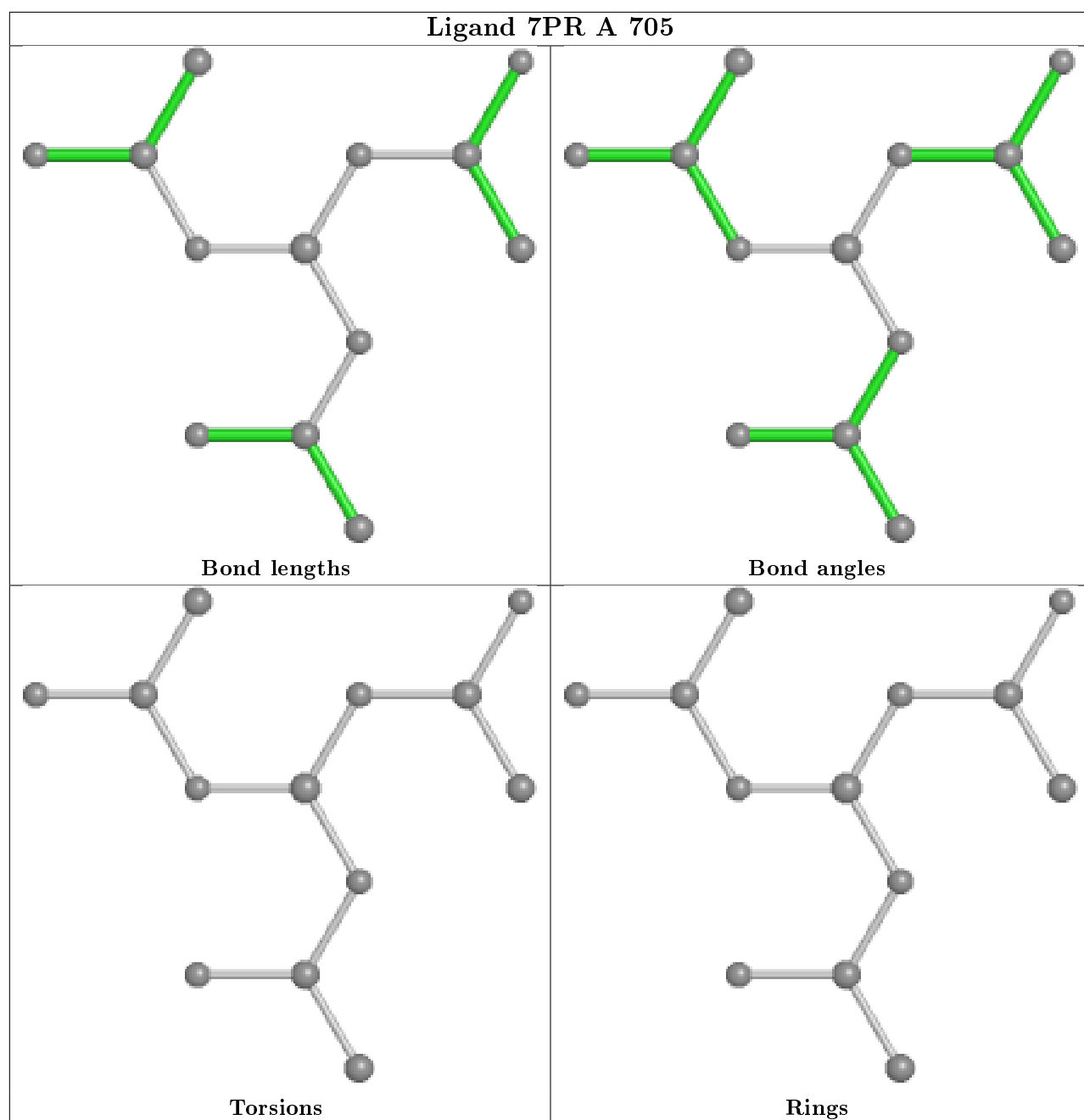
Mol	Chain	Res	Type	Atoms
2	A	701	CJV	C27-C28-C29-N5
2	A	701	CJV	C18-C17-N2-C16
2	A	701	CJV	C3-C4-C5-C6
2	A	701	CJV	C21-C20-N3-C19
2	A	701	CJV	C34-C20-N3-C19

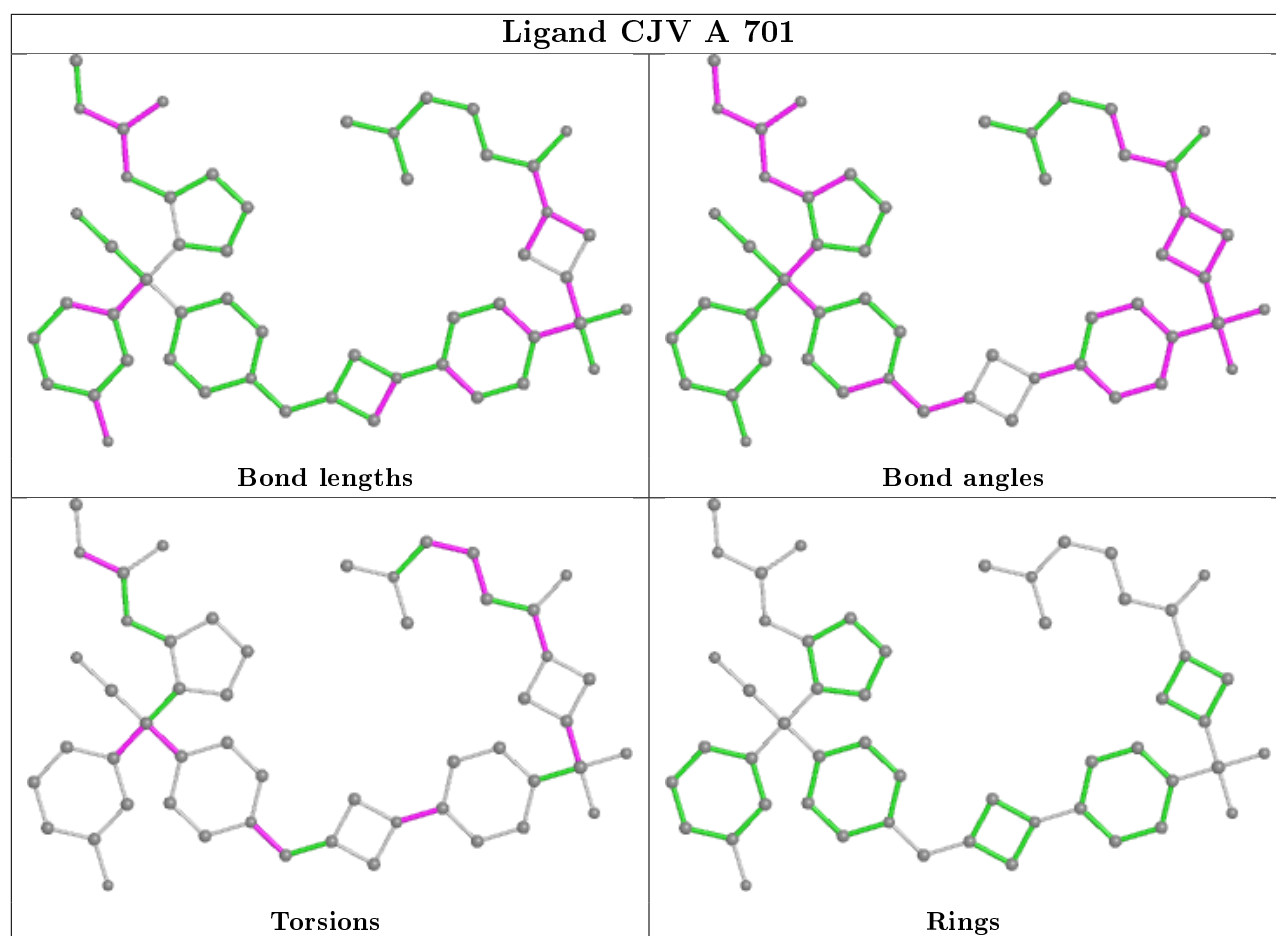
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	702[A]	7PR	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 than 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	OWAB(Å ²)	Q<0.9
1	A	481/550 (87%)	0.11	3 (0%) 89 88	16, 36, 61, 96	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	109	GLU	4.7
1	A	382	LEU	2.5
1	A	112	VAL	2.4

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, 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
3	7PR	A	705	13/13	0.71	0.69	198,200,201,201	0
3	7PR	A	704	13/13	0.91	0.37	136,137,138,139	0
2	CJV	A	701	52/52	0.94	0.21	21,30,47,48	0
3	7PR	A	703	13/13	0.96	0.26	85,89,95,96	0

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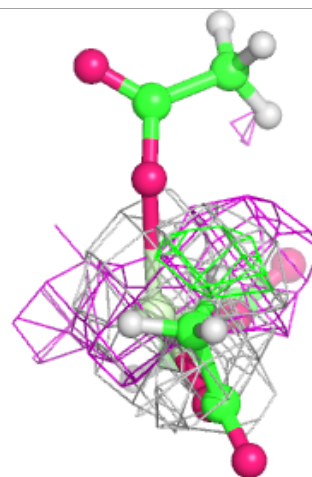
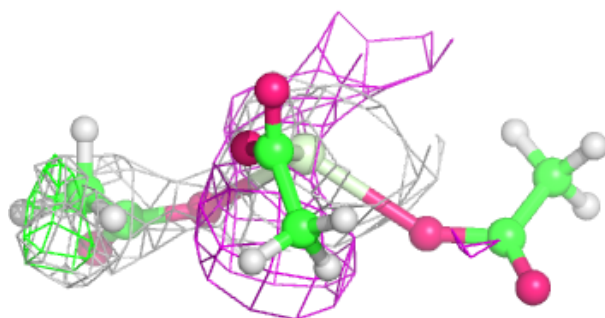
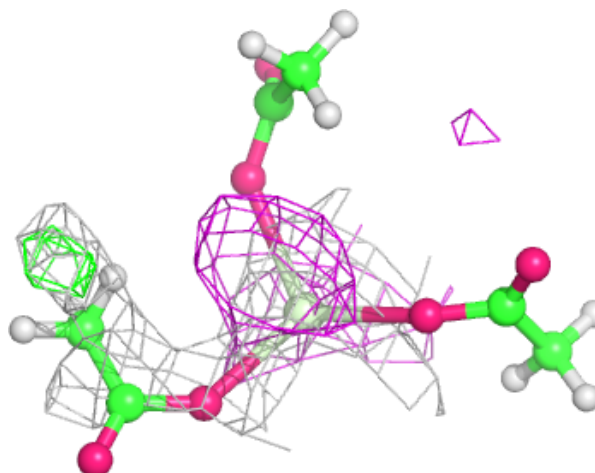
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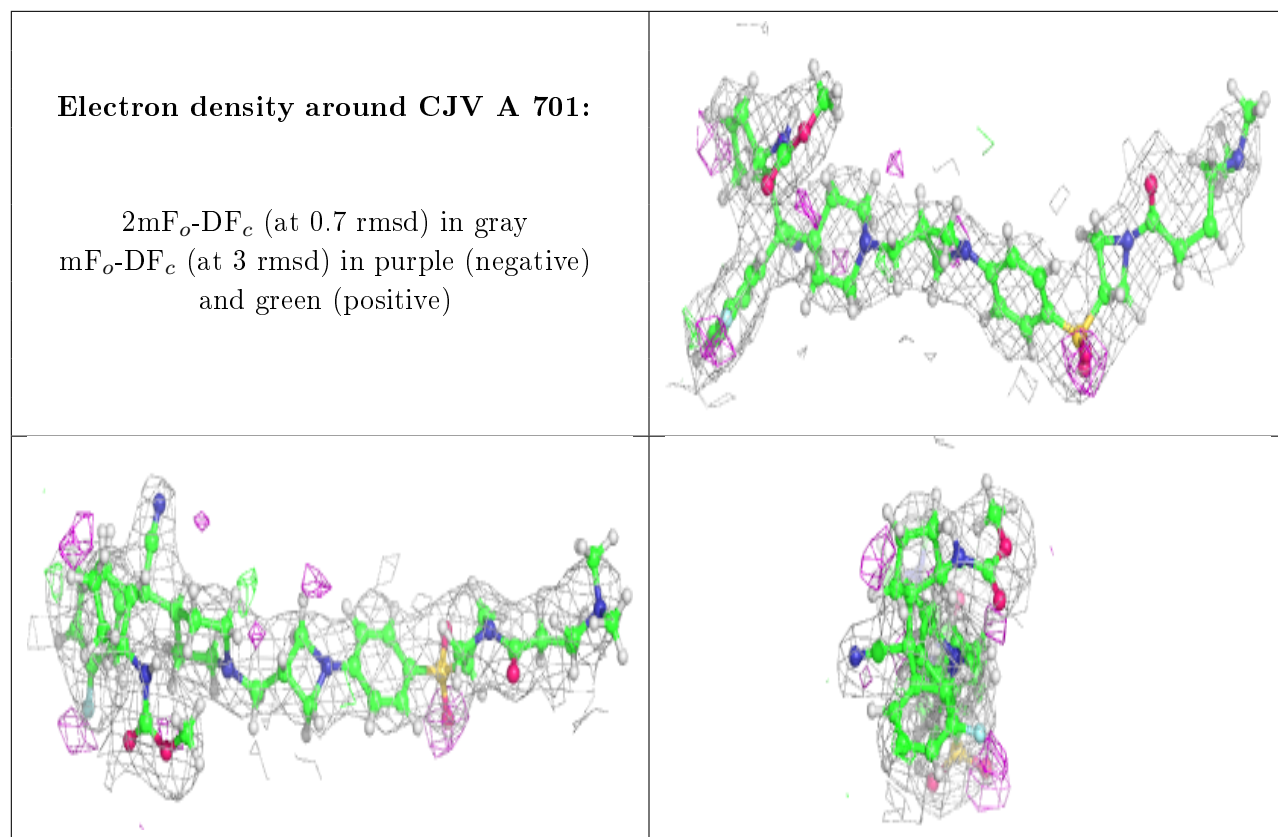
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	7PR	A	702[A]	13/13	0.98	0.21	32,36,39,41	13
3	7PR	A	702[B]	13/13	0.98	0.21	213,214,215,216	13

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 7PR A 705:

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.