



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 26, 2026 – 06:58 am BST

PDB ID : 9FU2 / pdb_00009fu2
Title : Smooth Muscle Myosin II in complex with MT-228
Authors : Kikuti, C.M.; Houdusse, A.
Deposited on : 2024-06-26
Resolution : 2.58 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.015 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

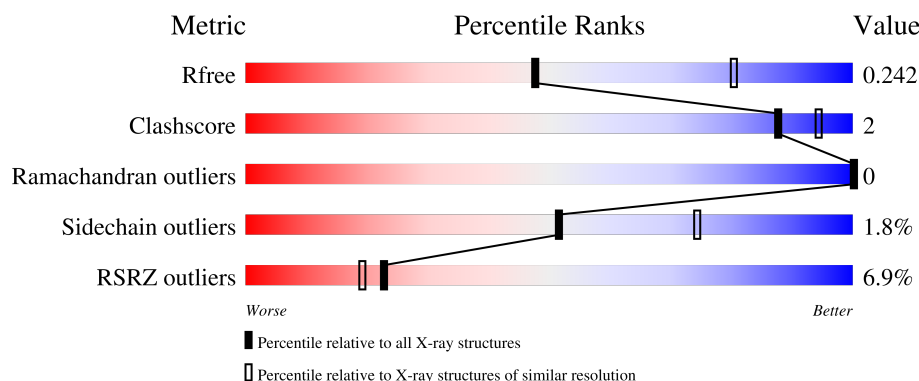
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.58 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}	180053	4770 (2.60-2.56)
Clashscore	190562	5124 (2.60-2.56)
Ramachandran outliers	187476	5046 (2.60-2.56)
Sidechain outliers	187428	5046 (2.60-2.56)
RSRZ outliers	180081	4770 (2.60-2.56)

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 $\leq 5\%$. 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	1972	

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	VO4	A	2002	-	-	X	-

2 Entry composition [i](#)

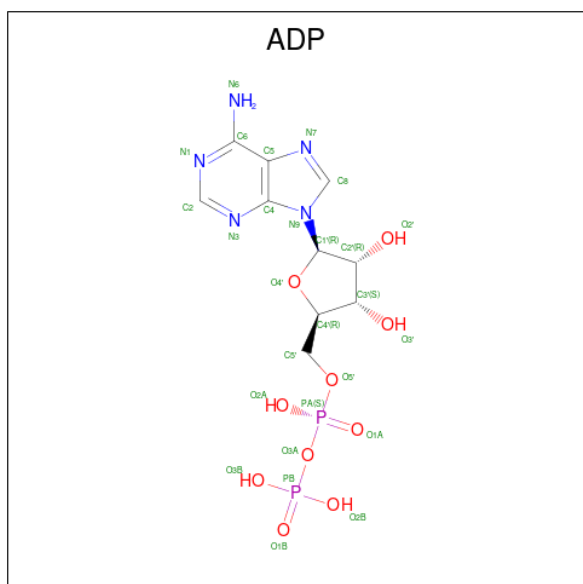
There are 9 unique types of molecules in this entry. The entry contains 11612 atoms, of which 5757 are hydrogens and 0 are deuteriums.

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 Myosin-11.

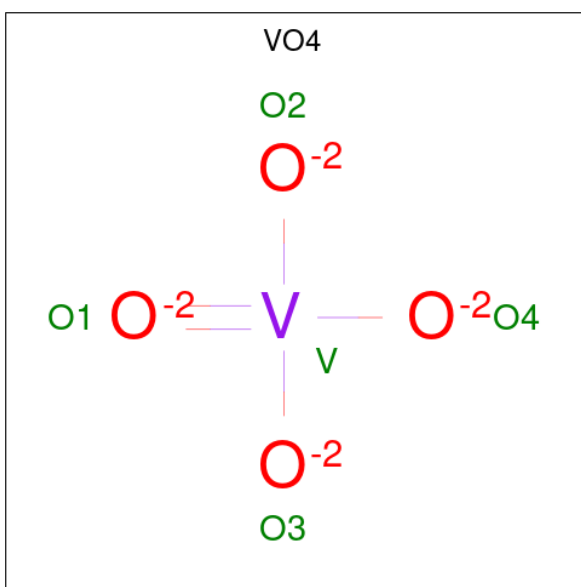
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	713	11364	3627	5674	979	1055	29	5674	0	0

- Molecule 2 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
			Total	C	H	N	O	P		
2	A	1	37	10	10	5	10	2	10	0

- Molecule 3 is VANADATE ION (CCD ID: VO4) (formula: O_4V).

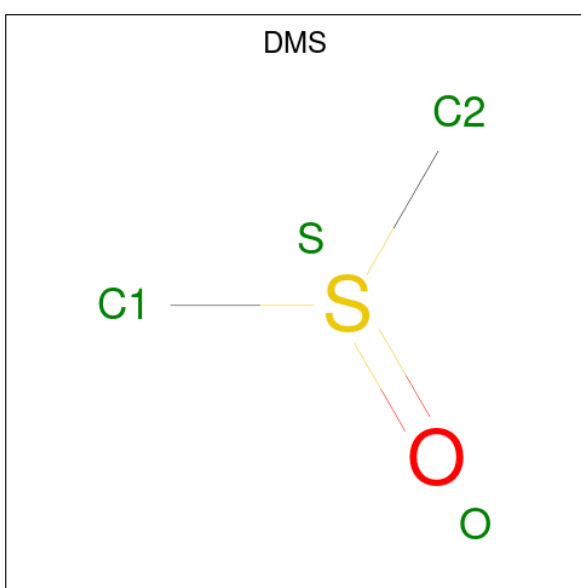


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	V	0	0
			5	4	1		

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

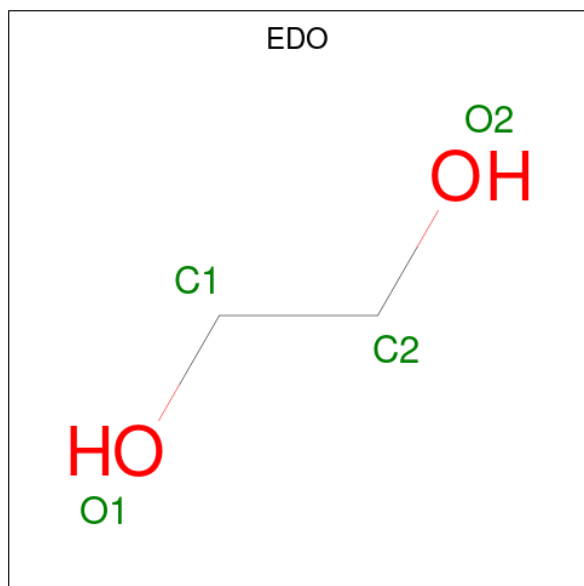
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Mg	0	0
			1	1		

- Molecule 5 is DIMETHYL SULFOXIDE (CCD ID: DMS) (formula: C₂H₆OS).



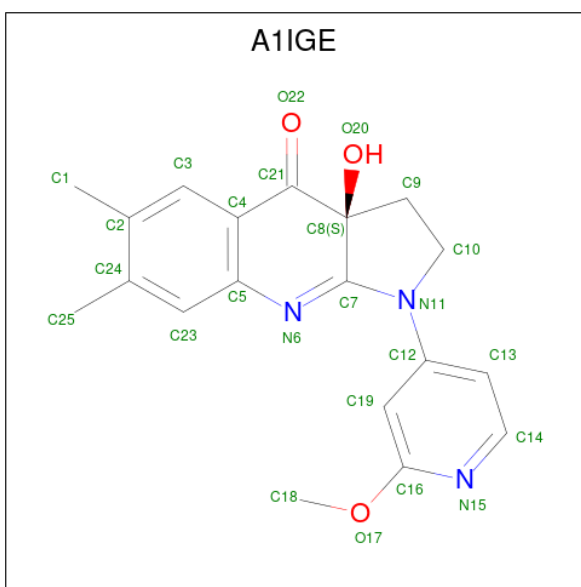
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	A	1	Total	C	H	O	S	6	0
			10	2	6	1	1		
5	A	1	Total	C	H	O	S	6	0
			10	2	6	1	1		
5	A	1	Total	C	H	O	S	6	0
			10	2	6	1	1		

- Molecule 6 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
6	A	1	Total	C	H	O		6	0
			10	2	6	2			
6	A	1	Total	C	H	O		6	0
			10	2	6	2			
6	A	1	Total	C	H	O		6	0
			10	2	6	2			
6	A	1	Total	C	H	O		6	0
			10	2	6	2			
6	A	1	Total	C	H	O		6	0
			10	2	6	2			

- Molecule 7 is (3 {a} {S})-1-(2-methoxypyridin-4-yl)-6,7-dimethyl-3 {a}-oxidanyl-2,3-dihydropyrrolo[2,3-b]quinolin-4-one (CCD ID: A1IGE) (formula: C₁₉H₁₉N₃O₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	A	1	Total	C	H	N	O	
			44	19	19	3	3	19 0

- Molecule 8 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	1	Total	Cl		
			1	1	0	0

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	70	Total	O		
			70	70	0	0

- Molecule 1: Myosin-11





4 Data and refinement statistics

Property	Value	Source
Space group	P 31	Depositor
Cell constants a, b, c, α , β , γ	83.11Å 83.11Å 132.25Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	71.97 – 2.58 71.97 – 2.58	Depositor EDS
% Data completeness (in resolution range)	100.0 (71.97-2.58) 100.0 (71.97-2.58)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.29 (at 2.58Å)	Xtriage
Refinement program	BUSTER 2.10.4	Depositor
R, R_{free}	0.229 , 0.250 0.222 , 0.242	Depositor DCC
R_{free} test set	1622 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	62.8	Xtriage
Anisotropy	0.211	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 36.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.000 for -h,-k,l 0.035 for h,-h-k,-l 0.017 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	11612	wwPDB-VP
Average B, all atoms (Å ²)	83.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.18% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, EDO, DMS, ADP, A1IGE, CL, VO4, MLY

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	0.72	0/5785	0.92	1/7801 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	309	PHE	CA-CB-CG	5.20	119.00	113.80

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	5690	5674	5669	16	0
2	A	27	10	12	3	0
3	A	5	0	0	7	0
4	A	1	0	0	0	0
5	A	12	18	18	0	0
6	A	24	36	36	2	0
7	A	25	19	0	0	0
8	A	1	0	0	0	0
9	A	70	0	0	0	0
All	All	5855	5757	5735	23	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 (23) 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:2002:VO4:O2	3:A:2002:VO4:V	1.57	0.62
3:A:2002:VO4:V	3:A:2002:VO4:O3	1.57	0.62
3:A:2002:VO4:V	3:A:2002:VO4:O4	1.57	0.62
3:A:2002:VO4:V	3:A:2002:VO4:O1	1.56	0.61
1:A:90:MET:HE3	1:A:116:THR:HG21	1.84	0.59
2:A:2001:ADP:O1B	3:A:2002:VO4:O4	2.24	0.55
1:A:420:ALA:O	6:A:2007:EDO:H11	2.08	0.54
1:A:725:ARG:O	1:A:729:GLU:HB2	2.07	0.53
1:A:90:MET:HE1	1:A:105:LEU:HG	1.91	0.51
2:A:2001:ADP:O1B	3:A:2002:VO4:O3	2.29	0.50
2:A:2001:ADP:O1B	3:A:2002:VO4:O1	2.29	0.50
1:A:90:MET:HE2	1:A:104:ASN:HB3	1.94	0.50
1:A:313:GLY:O	6:A:2012:EDO:O2	2.27	0.50
1:A:270:ARG:O	1:A:274:GLN:OE1	2.28	0.50
1:A:279:ARG:HD2	1:A:315:VAL:O	2.13	0.48
1:A:192:ILE:HD11	1:A:246:ILE:HD13	1.96	0.47
1:A:161:ALA:O	1:A:172:GLN:HG3	2.16	0.46
1:A:382:CYS:HB3	1:A:387:ILE:O	2.16	0.44
1:A:282:HIS:HB3	1:A:286:TYR:CZ	2.54	0.42
1:A:222:ASN:OD1	1:A:244:LYS:HE3	2.20	0.42
1:A:390:THR:O	1:A:394:ARG:HG2	2.21	0.41
1:A:711:CYS:SG	1:A:716:PRO:HG3	2.60	0.40
1:A:194:TYR:CZ	1:A:198:VAL:HG21	2.56	0.40

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	702/1972 (36%)	676 (96%)	26 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	610/1719 (36%)	599 (98%)	11 (2%)	51	74

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	34	ARG
1	A	137	LYS
1	A	294	LYS
1	A	321	GLN
1	A	369	GLN
1	A	405	ARG
1	A	485	GLN
1	A	572	LYS
1	A	696	LEU
1	A	723	GLU
1	A	726	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	187	ASN
1	A	220	GLN
1	A	306	ASN
1	A	355	GLN
1	A	369	GLN
1	A	726	GLN
1	A	759	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

1 non-standard protein/DNA/RNA residue is 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	$\# Z > 2$
1	MLY	A	189	1	9,10,11	1.00	0	6,11,13	1.55	1 (16%)

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
1	MLY	A	189	1	-	3/8/9/11	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	189	MLY	CH1-NZ-CE	3.43	124.35	110.74

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	189	MLY	CD-CE-NZ-CH1
1	A	189	MLY	CD-CE-NZ-CH2
1	A	189	MLY	CE-CD-CG-CB

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 14 ligands modelled in this entry, 2 are monoatomic - leaving 12 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	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	VO4	A	2002	2,4	0,4,4	-	-	-		
5	DMS	A	2010	-	3,3,3	0.65	0	3,3,3	0.34	0
6	EDO	A	2009	-	3,3,3	0.30	0	2,2,2	0.28	0
6	EDO	A	2011	-	3,3,3	0.33	0	2,2,2	0.19	0
6	EDO	A	2006	-	3,3,3	0.27	0	2,2,2	0.26	0
2	ADP	A	2001	4,3	27,29,29	0.38	0	42,45,45	0.47	0
5	DMS	A	2004	-	3,3,3	0.70	0	3,3,3	0.28	0
6	EDO	A	2007	-	3,3,3	0.40	0	2,2,2	0.20	0
7	A1IGE	A	2008	-	24,28,28	0.21	0	31,43,43	1.27	2 (6%)
6	EDO	A	2005	-	3,3,3	0.35	0	2,2,2	0.07	0
5	DMS	A	2013	-	3,3,3	0.65	0	3,3,3	0.30	0
6	EDO	A	2012	-	3,3,3	0.26	0	2,2,2	0.21	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
6	EDO	A	2009	-	-	0/1/1/1	-
6	EDO	A	2011	-	-	1/1/1/1	-
6	EDO	A	2006	-	-	0/1/1/1	-
2	ADP	A	2001	4,3	-	2/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	EDO	A	2007	-	-	0/1/1/1	-
7	A1IGE	A	2008	-	-	0/6/36/36	0/3/4/4
6	EDO	A	2005	-	-	1/1/1/1	-
6	EDO	A	2012	-	-	1/1/1/1	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A	2008	A1IGE	O22-C21-C8	6.06	127.16	120.60
7	A	2008	A1IGE	C8-C21-C4	-2.29	109.75	116.83

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2001	ADP	PA-O3A-PB-O3B
6	A	2012	EDO	O1-C1-C2-O2
6	A	2011	EDO	O1-C1-C2-O2
2	A	2001	ADP	PA-O3A-PB-O2B
6	A	2005	EDO	O1-C1-C2-O2

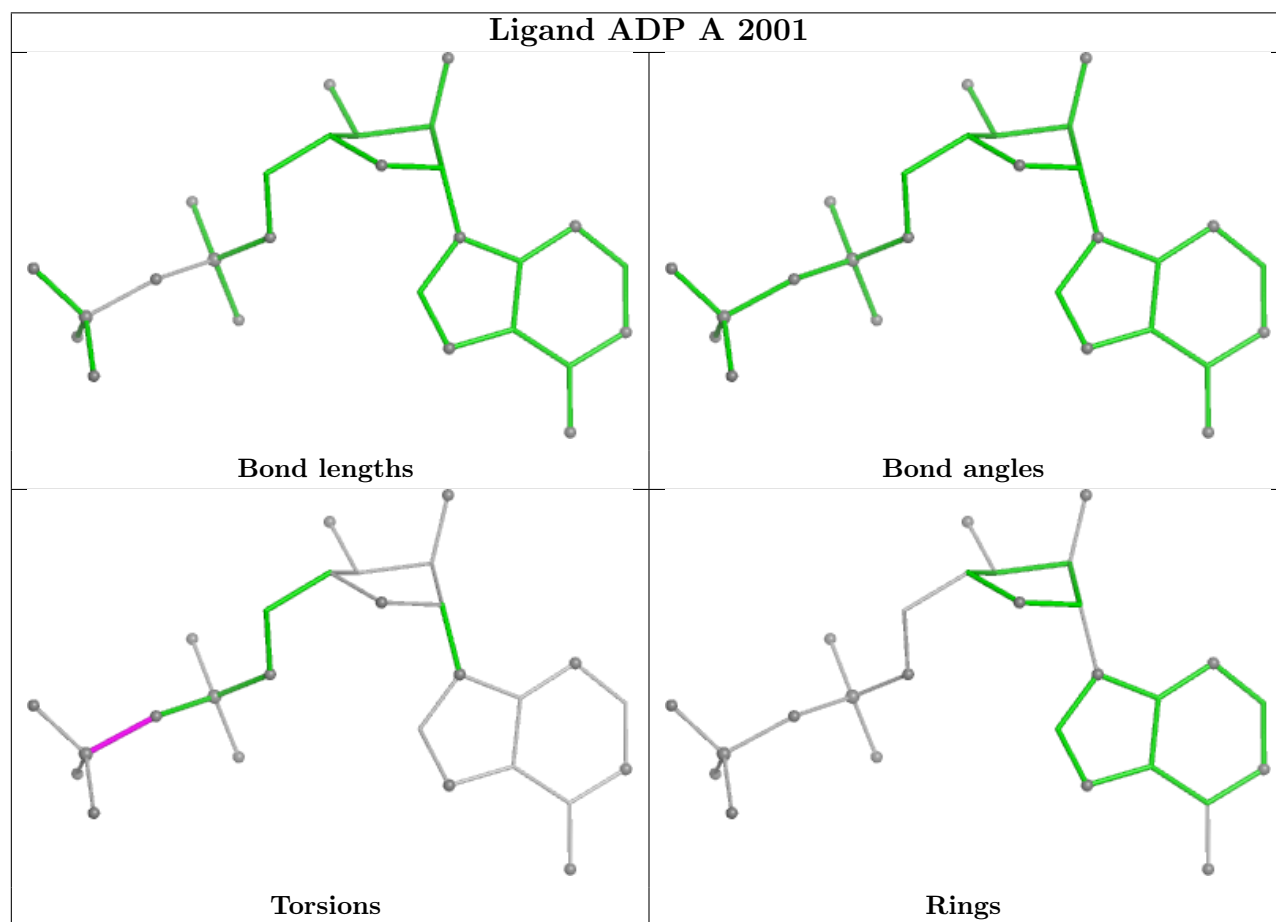
There are no ring outliers.

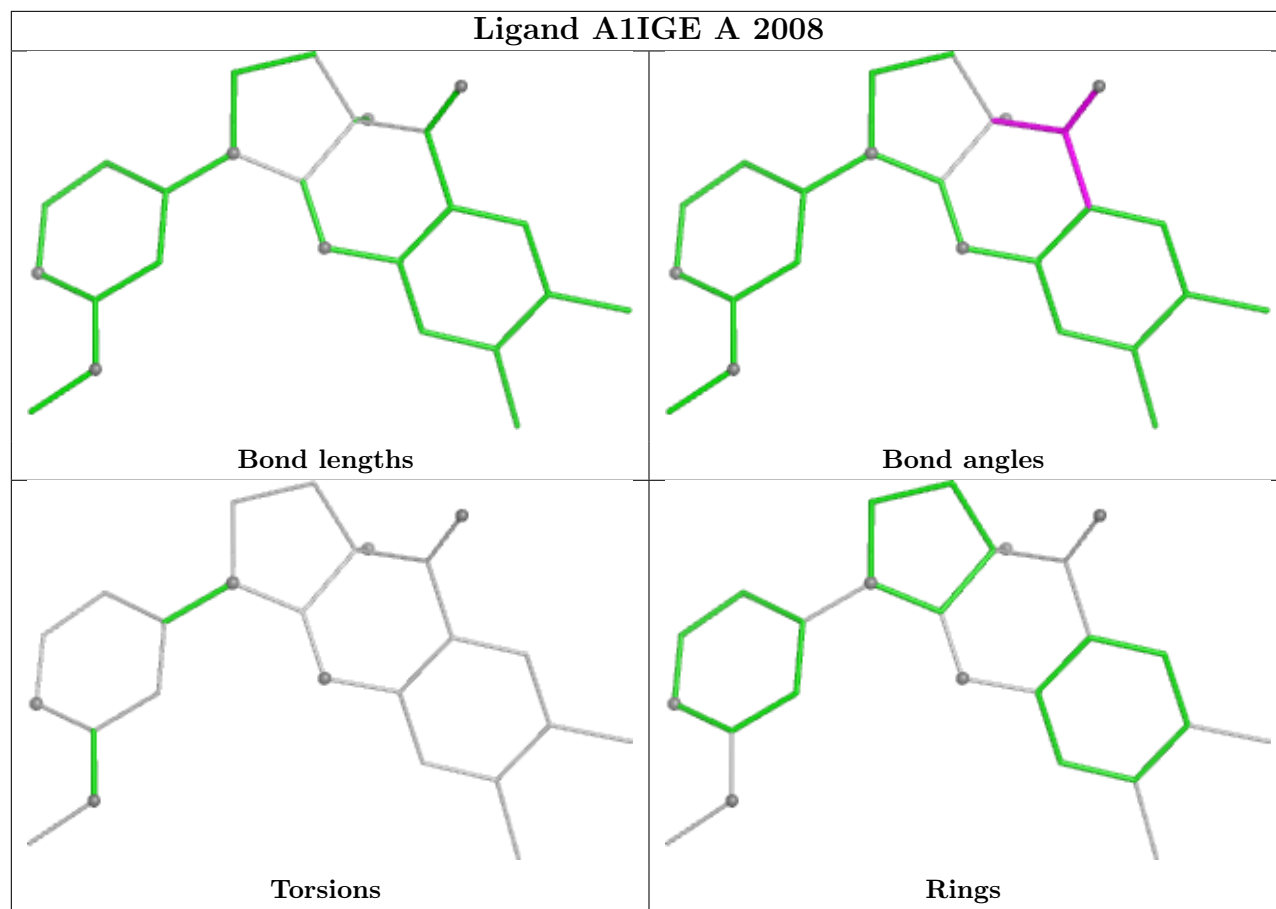
4 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	2002	VO4	7	0
2	A	2001	ADP	3	0
6	A	2007	EDO	1	0
6	A	2012	EDO	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

6.1 Protein, DNA and RNA chains

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	712/1972 (36%)	0.69	49 (6%)	23 19	22, 38, 66, 155	0

All (49) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	62	LEU	7.9
1	A	60	VAL	7.4
1	A	49	SER	7.3
1	A	59	VAL	6.5
1	A	48	ALA	6.2
1	A	58	VAL	6.2
1	A	45	PHE	5.7
1	A	626	VAL	5.6
1	A	52	GLU	5.5
1	A	36	VAL	5.4
1	A	628	LEU	5.2
1	A	38	VAL	5.1
1	A	32	ALA	4.9
1	A	61	GLU	4.9
1	A	35	LEU	4.6
1	A	39	PRO	4.6
1	A	47	ALA	4.6
1	A	56	ASP	4.5
1	A	57	GLU	4.4
1	A	37	TRP	4.1
1	A	44	GLY	3.5
1	A	786	ILE	3.5
1	A	40	SER	3.5
1	A	46	GLU	3.4
1	A	53	GLU	3.2
1	A	569	LEU	3.2
1	A	34	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	33	LYS	2.9
1	A	625	ILE	2.9
1	A	540	TRP	2.9
1	A	627	GLY	2.9
1	A	526	ASN	2.7
1	A	94	THR	2.6
1	A	140	ASP	2.5
1	A	71	VAL	2.5
1	A	430	GLU	2.4
1	A	407	VAL	2.4
1	A	42	LYS	2.4
1	A	519	ILE	2.3
1	A	201	SER	2.3
1	A	711	CYS	2.2
1	A	571	ASP	2.2
1	A	554	CYS	2.1
1	A	559	SER	2.1
1	A	563	PHE	2.1
1	A	514	ASP	2.1
1	A	772	THR	2.0
1	A	198	VAL	2.0
1	A	775	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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($\text{\AA}^2$)	Q<0.9
1	MLY	A	189	11/12	0.95	0.12	54,62,73,74	16

6.3 Carbohydrates [i](#)

There are no oligosaccharides 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,

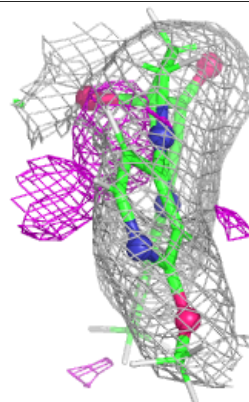
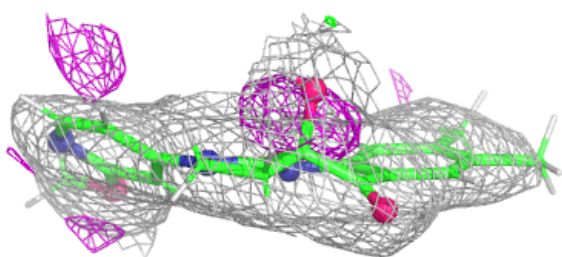
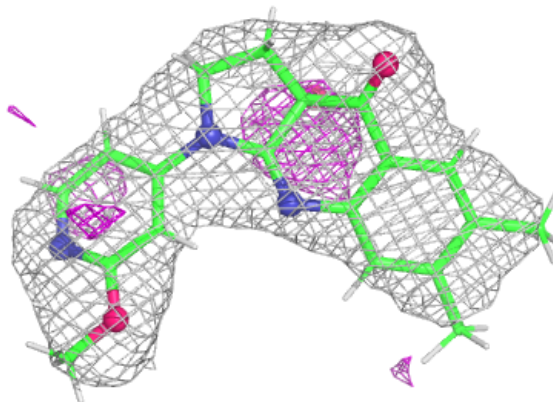
median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	DMS	A	2013	4/4	0.55	0.28	150,173,178,179	6
5	DMS	A	2010	4/4	0.76	0.28	136,137,138,138	6
5	DMS	A	2004	4/4	0.82	0.25	106,111,115,115	6
6	EDO	A	2005	4/4	0.83	0.23	85,86,90,90	6
6	EDO	A	2009	4/4	0.84	0.22	72,74,75,75	6
6	EDO	A	2006	4/4	0.88	0.15	76,78,78,78	6
6	EDO	A	2012	4/4	0.88	0.20	80,85,87,89	6
6	EDO	A	2011	4/4	0.90	0.21	88,92,96,96	6
6	EDO	A	2007	4/4	0.90	0.30	70,72,72,72	6
7	A1IGE	A	2008	25/25	0.92	0.11	52,58,59,60	19
8	CL	A	2014	1/1	0.95	0.10	86,86,86,86	0
2	ADP	A	2001	27/27	0.97	0.06	58,61,68,71	10
3	VO4	A	2002	5/5	0.98	0.05	60,60,60,60	0
4	MG	A	2003	1/1	0.99	0.05	52,52,52,52	0

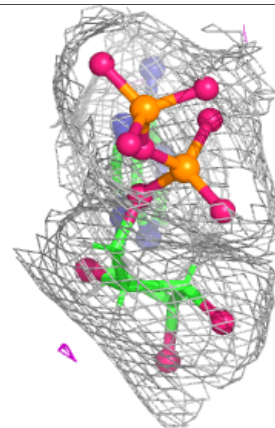
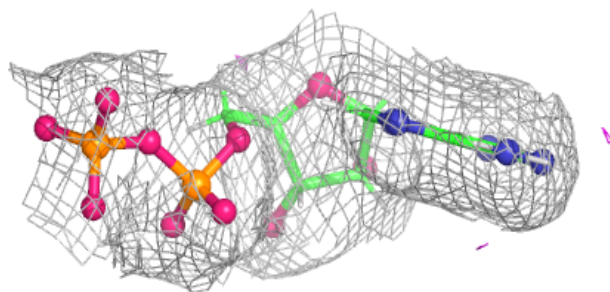
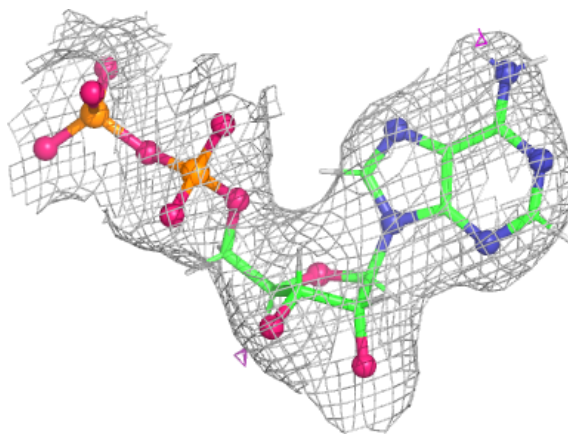
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around A1IGE A 2008:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around ADP A 2001:**

$2mF_o-DF_c$ (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.