

Full wwPDB X-ray Structure Validation Report (i)

Dec 12, 2023 – 06:30 pm GMT

PDB ID : 4PFO

Title: Myosin VI motor domain in the Pi release state, space group P212121

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Deposited on : 2014-04-30

Resolution : 1.75 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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

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) : 1.13

EDS : 2.36

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)

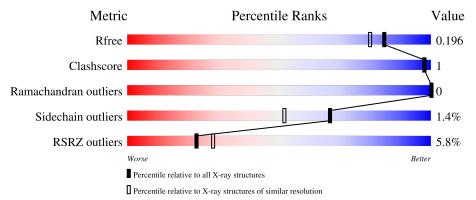
Validation Pipeline (wwPDB-VP) : 2.36

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 1.75 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\AA)}) \end{array}$
R_{free}	130704	2340 (1.76-1.76)
Clashscore	141614	2466 (1.76-1.76)
Ramachandran outliers	138981	2437 (1.76-1.76)
Sidechain outliers	138945	2437 (1.76-1.76)
RSRZ outliers	127900	2298 (1.76-1.76)

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	Δ	788	93%



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 6733 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 Unconventional myosin-VI.

\mathbf{N}	Iol	Chain	Residues		A	toms			ZeroOcc	AltConf	Trace
	1	A	755	Total 5991	C 3832	N 1028	O 1104	S 27	0	7	0

• Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

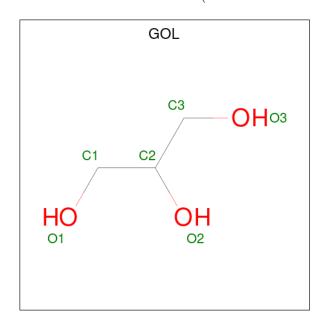
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Mg 1 1	0	0

• Molecule 3 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
9	Λ	1	Total	С	N	О	Р	0	0
3	A	1	27	10	5	10	2	U	U



• Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



4 A 1 Total C O O 6 3 3 3 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4 A 1 6 3 3 0 0 4 A 1 Total C O O O O O O O O O O O O O O O O O O	4	A	1		0	0
4 A 1 6 3 3 0 0 4 A 1 Total C O O G S S S S S S S S S S S S S S S S S	4	A	1		0	0
4 A 1 6 3 3 0 0 4 A 1 Total C O O G S S S S S S S S S S S S S S S S S	4	A	1		0	0
4 A 1 6 3 3 0 0 4 A 1 Total C O O G S S S S S S S S S S S S S S S S S	4	A	1		0	0
4 A 1 6 3 3 0 0 4 A 1 Total C O O 6 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	A	1	6 3 3	0	0
4 A 1 6 3 3 0 0 4 A 1 Total C O O 6 0 0 0 4 A 1 Total C O O 6 0 0 0 4 A 1 Total C O O 6 0 0 0 4 A 1 Total C O O 6 0 0 0 4 A 1 Total C O O 6 0 0 0 4 A 1 Total C O O 6 0 0 0	4	A	1		0	0
4 A 1 6 3 3 0 0 4 A 1 Total C O O 6 0 0 0 4 A 1 Total C O O 6 0 0 0 4 A 1 Total C O O 6 0 0 0 4 A 1 Total C O O 6 0 0 0 4 A 1 Total C O O 0 O 0 0 0	4	A	1	6 3 3	0	0
4 A 1 6 3 3 0 0 4 A 1 Total C O G S S S S S S S S S S S S S S S S S S	4	A	1	6 3 3	0	0
4 A 1 6 3 3 0 0 4 A 1 Total C O G S S S S S S S S S S S S S S S S S S	4	A	1	6 3 3	0	0
4 A 1 6 3 3 0 0 0 0 4 A 1 Total C O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	A	1	6 3 3	0	0
4 A 1 6 3 3 0 0 0 0 1 4 Δ 1 Total C O 0 0	4	A	1	6 3 3	0	0
	4	A	1	6 3 3	0	0
Continued on most mass	4	A	1	6 3 3		

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\mathbf{N}	[ol	Chain	Residues	Atoms	5	ZeroOcc	AltConf
,	4	A	1	Total C 6 3	O 3	0	0

• Molecule 5 is water.

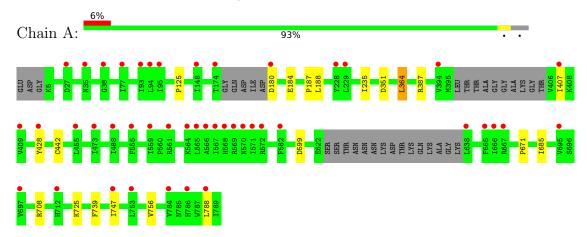
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	630	Total O 630 630	0	0



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: Unconventional myosin-VI





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	91.27Å 95.31Å 103.52Å	Donositon
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	17.64 - 1.75	Depositor
rtesolution (A)	42.24 - 1.75	EDS
% Data completeness	99.1 (17.64-1.75)	Depositor
(in resolution range)	99.4 (42.24-1.75)	EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.43 (at 1.75Å)	Xtriage
Refinement program	BUSTER 2.10.0	Depositor
R, R_{free}	0.169 , 0.192	Depositor
It, It free	0.169 , 0.196	DCC
R_{free} test set	4534 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor (Å ²)	32.1	Xtriage
Anisotropy	0.338	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.37, 53.4	EDS
L-test for twinning ²	$< L > = 0.49, < L^2> = 0.33$	Xtriage
Estimated twinning fraction	0.015 for k,h,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6733	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.91% 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: MG, GOL, ADP

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	Bond angles		
MIOI	Cham	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.51	0/6122	0.59	0/8271	

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	5991	0	5815	7	0
2	A	1	0	0	0	0
3	A	27	0	12	0	0
4	A	84	0	112	2	0
5	A	630	0	0	1	0
All	All	6733	0	5939	8	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 1.

All (8) 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	${f distance}({ m \AA})$	overlap (Å)
4:A:813:GOL:H31	5:A:1319:HOH:O	1.79	0.82
1:A:125:PRO:O	4:A:813:GOL:H32	2.08	0.54
1:A:364:LEU:HD13	1:A:387:ARG:HG3	1.90	0.53
1:A:184:GLU:O	1:A:187:PRO:HD2	2.10	0.51
1:A:739:PHE:CE1	1:A:756:VAL:HG21	2.50	0.46
1:A:235:ILE:HD13	1:A:428:TYR:HB3	2.02	0.42
1:A:725:LYS:HE2	1:A:788:LEU:HD13	2.01	0.42
1:A:671:PRO:HA	1:A:685:ILE:HD11	2.02	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	754/788 (96%)	744 (99%)	10 (1%)	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	632/696 (91%)	623 (99%)	9 (1%)	67 52

All (9) residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	A	180	ASP
1	A	188	LEU
1	A	351	ASP
1	A	364	LEU
1	A	407	ILE
1	A	442	CYS
1	A	599	ASP
1	A	708	ARG
1	A	747	ILE

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

Mol	Chain	Res	Type
1	A	716	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 16 ligands modelled in this entry, 1 is monoatomic - leaving 15 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	Bo	ond leng	ths	Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	GOL	A	810	-	5,5,5	0.14	0	5,5,5	0.28	0
4	GOL	A	811	-	5,5,5	0.07	0	5,5,5	0.23	0
4	GOL	A	803	-	5,5,5	0.12	0	5,5,5	0.60	0
4	GOL	A	808	-	5,5,5	0.08	0	5,5,5	0.26	0
4	GOL	A	815	_	5,5,5	0.05	0	5,5,5	0.21	0
4	GOL	A	806	_	5,5,5	0.09	0	5,5,5	0.36	0
4	GOL	A	804	-	5,5,5	0.15	0	5,5,5	0.37	0
3	ADP	A	802	2	24,29,29	0.77	0	29,45,45	0.71	1 (3%)
4	GOL	A	814	-	5,5,5	0.06	0	5,5,5	0.52	0
4	GOL	A	805	-	5,5,5	0.06	0	5,5,5	0.44	0
4	GOL	A	816	_	5,5,5	0.09	0	5,5,5	0.61	0
4	GOL	A	807	-	5,5,5	0.06	0	5,5,5	0.25	0
4	GOL	A	809	-	5,5,5	0.04	0	5,5,5	0.25	0
4	GOL	A	812	_	5,5,5	0.05	0	5, 5, 5	0.17	0
4	GOL	A	813	-	5,5,5	0.37	0	5,5,5	0.36	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
4	GOL	A	810	-	-	0/4/4/4	-
4	GOL	A	811	-	-	0/4/4/4	-
4	GOL	A	803	_	-	3/4/4/4	-
4	GOL	A	808	-	-	0/4/4/4	-
4	GOL	A	815	-	-	2/4/4/4	-
4	GOL	A	806	_	-	0/4/4/4	-
4	GOL	A	804	_	-	0/4/4/4	-
3	ADP	A	802	2	-	2/12/32/32	0/3/3/3
4	GOL	A	814	-	-	0/4/4/4	-
4	GOL	A	805	_	-	0/4/4/4	-
4	GOL	A	816	-	-	2/4/4/4	-
4	GOL	A	807	-	-	0/4/4/4	-
4	GOL	A	809	_	-	2/4/4/4	_
4	GOL	A	812	-	-	0/4/4/4	-
4	GOL	A	813	-	-	0/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}({}^{o})$	
3	A	802	ADP	C5-C6-N6	2.08	123.51	120.35	

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	802	ADP	PA-O3A-PB-O2B
4	A	803	GOL	O1-C1-C2-C3
4	A	809	GOL	O1-C1-C2-C3
4	A	815	GOL	C1-C2-C3-O3
4	A	816	GOL	C1-C2-C3-O3
4	A	803	GOL	O1-C1-C2-O2
4	A	809	GOL	O1-C1-C2-O2
4	A	815	GOL	O2-C2-C3-O3
4	A	816	GOL	O2-C2-C3-O3
4	A	803	GOL	O2-C2-C3-O3
3	A	802	ADP	PA-O3A-PB-O3B

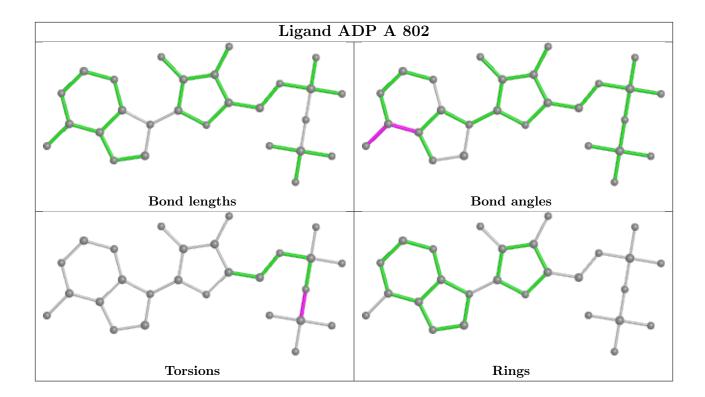
There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	813	GOL	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>	#RSRZ>	-2	$OWAB(Å^2)$	Q<0.9
1	A	755/788 (95%)	0.29	44 (5%) 23	28	23, 36, 57, 97	2 (0%)

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	566	ALA	4.9
1	A	407	ILE	4.6
1	A	567	ILE	4.2
1	A	555	PHE	3.8
1	A	564	LYS	3.7
1	A	570	ASN	3.7
1	A	565	LEU	3.6
1	A	394	VAL	3.6
1	A	27	ASP	3.3
1	A	35	ASN	3.2
1	A	93	ILE	3.2
1	A	638	LEU	3.2
1	A	665	PHE	3.2
1	A	666	ILE	3.1
1	A	784	VAL	3.1
1	A	174	THR	3.0
1	A	95	ILE	2.9
1	A	788	LEU	2.9
1	A	409	VAL	2.8
1	A	148	ILE	2.8
1	A	561	ARG	2.8
1	A	473	ILE	2.7
1	A	94	LEU	2.5
1	A	572	ARG	2.4
1	A	753	LEU	2.4
1	A	38	GLY	2.4
1	A	77[A]	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	569	ARG	2.3
1	A	488	ILE	2.3
1	A	559	ILE	2.2
1	A	582	PHE	2.2
1	A	695	VAL	2.2
1	A	712	HIS	2.2
1	A	455	LEU	2.1
1	A	786	HIS	2.1
1	A	697	VAL	2.1
1	A	180	ASP	2.1
1	A	568	HIS	2.1
1	A	667	ARG	2.0
1	A	228	TYR	2.0
1	A	428	TYR	2.0
1	A	571	ILE	2.0
1	A	747	ILE	2.0
1	A	229	LEU	2.0

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	GOL	A	816	6/6	0.71	0.20	56,66,69,71	0
4	GOL	A	809	6/6	0.76	0.19	75,77,78,79	0
4	GOL	A	808	6/6	0.81	0.25	62,65,66,67	0
4	GOL	A	814	6/6	0.85	0.30	64,64,65,67	0
4	GOL	A	810	6/6	0.85	0.17	48,55,57,58	0
4	GOL	A	806	6/6	0.88	0.21	56,58,60,64	0

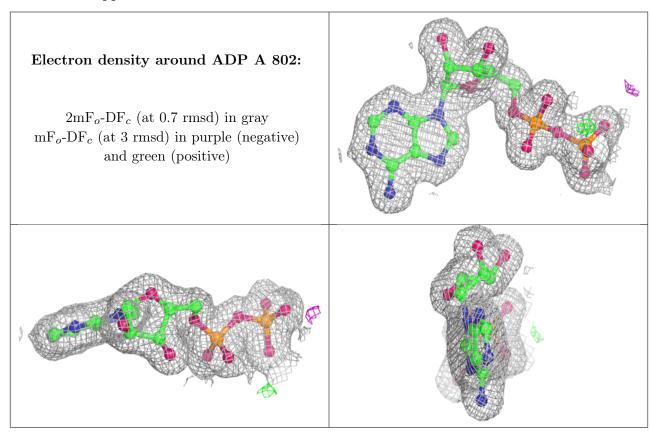
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q<0.9
4	GOL	A	805	6/6	0.88	0.23	55,62,63,64	0
4	GOL	A	815	6/6	0.89	0.17	61,65,68,71	0
4	GOL	A	807	6/6	0.92	0.14	35,51,54,56	0
4	GOL	A	803	6/6	0.92	0.22	31,44,47,49	0
4	GOL	A	812	6/6	0.92	0.13	70,72,73,74	0
4	GOL	A	813	6/6	0.93	0.36	32,42,51,52	0
4	GOL	A	811	6/6	0.93	0.17	34,59,64,65	0
4	GOL	A	804	6/6	0.95	0.10	35,38,45,47	0
2	MG	A	801	1/1	0.99	0.14	25,25,25,25	0
3	ADP	A	802	27/27	0.99	0.08	22,24,27,28	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.

