



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 12:53 am GMT

PDB ID : 5HMP
Title : Myosin Vc pre-powerstroke state
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Deposited on : 2016-01-16
Resolution : 2.40 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

<http://wwpdb.org/validation/2016/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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28949

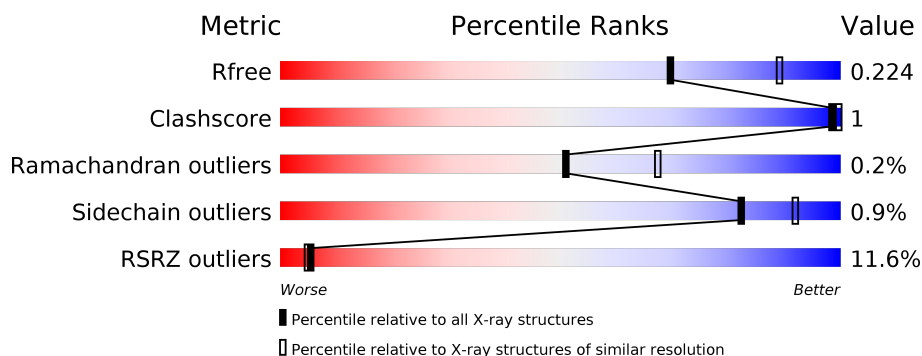
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	100719	3166 (2.40-2.40)
Clashscore	112137	3674 (2.40-2.40)
Ramachandran outliers	110173	3616 (2.40-2.40)
Sidechain outliers	110143	3617 (2.40-2.40)
RSRZ outliers	101464	3195 (2.40-2.40)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	750	<div> <div>9%</div> <div>91%</div> <div>7%</div> </div>
1	B	750	<div> <div>13%</div> <div>92%</div> <div>5%</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
2	MG	A	801	-	-	-	X
5	EDO	A	804	-	-	-	X
5	EDO	B	804	-	-	-	X
5	EDO	B	805	-	-	-	X

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 22054 atoms, of which 10527 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.

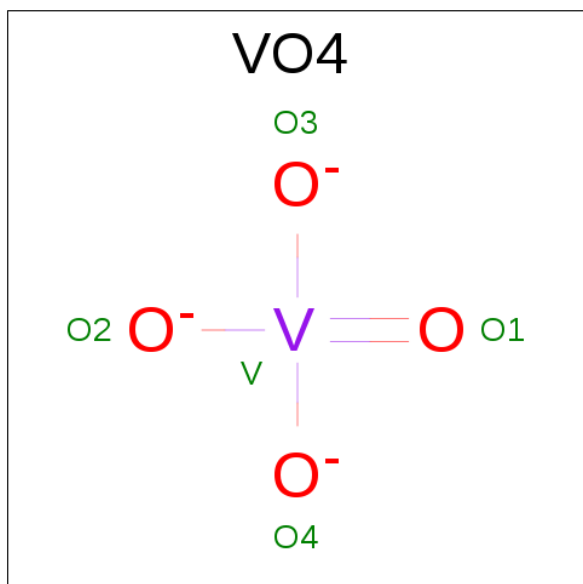
- Molecule 1 is a protein called Unconventional myosin-Vc.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	697	Total	C	H	N	O	S	0	1	0
			10580	3474	5131	926	1025	24			
1	B	712	Total	C	H	N	O	S	0	1	0
			10972	3591	5348	954	1054	25			

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

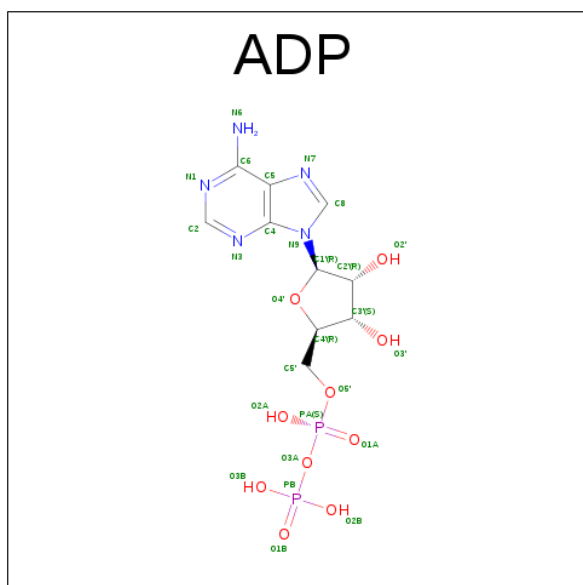
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Mg	0	0
			1	1		
2	A	1	Total	Mg	0	0
			1	1		

- Molecule 3 is VANADATE ION (three-letter code: VO4) (formula: O₄V).



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

- Molecule 4 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



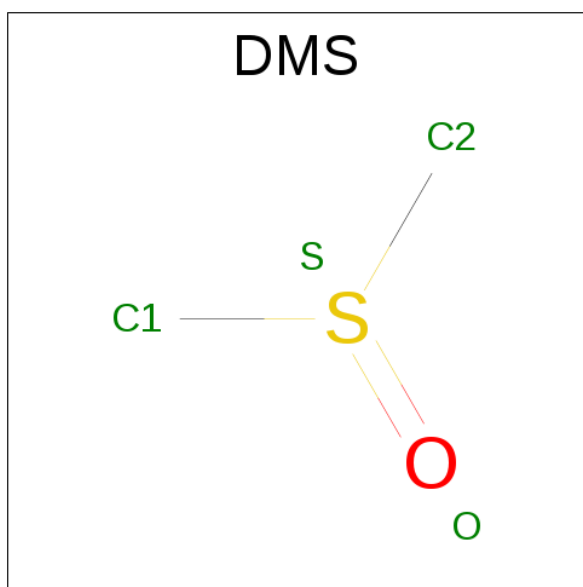
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
4	A	1	Total 39	C 10	H 12	N 5	O 10	P 2	0	0
4	B	1	Total 39	C 10	H 12	N 5	O 10	P 2	0	0

- Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



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

- Molecule 6 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: C₂H₆OS).



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

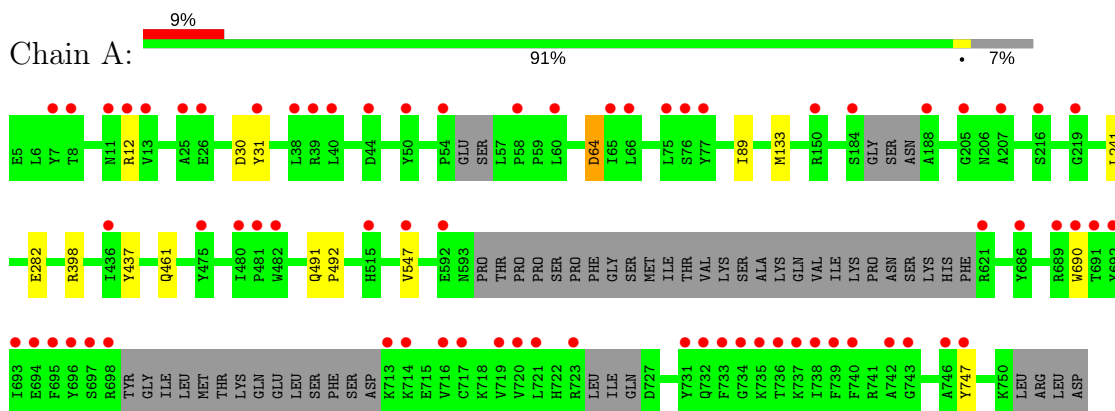
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	229	Total 229	O 229	0	0
7	B	143	Total 143	O 143	0	0

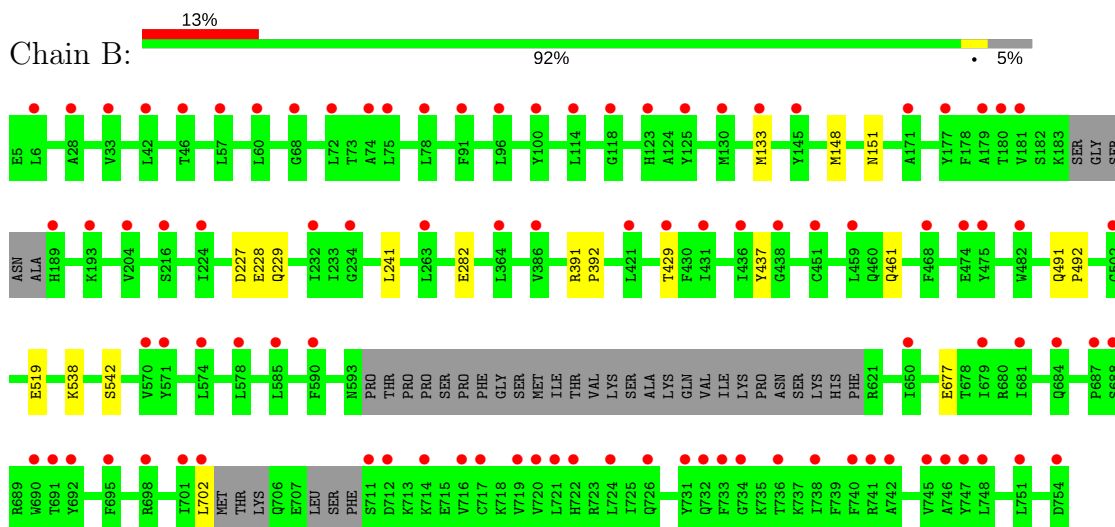
3 Residue-property plots [i](#)

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.

• Molecule 1: Unconventional myosin-Vc



• Molecule 1: Unconventional myosin-Vc



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	103.78Å 66.74Å 131.26Å 90.00° 104.45° 90.00°	Depositor
Resolution (Å)	48.50 – 2.40 48.52 – 2.40	Depositor EDS
% Data completeness (in resolution range)	98.3 (48.50-2.40) 98.4 (48.52-2.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.59 (at 2.39Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.205 , 0.227 0.201 , 0.224	Depositor DCC
R_{free} test set	3378 reflections (5.00%)	DCC
Wilson B-factor (Å ²)	57.1	Xtriage
Anisotropy	0.201	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 58.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	22054	wwPDB-VP
Average B, all atoms (Å ²)	88.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.79% 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: VO4, MG, DMS, EDO, 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).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.23	0/5567	0.37	0/7543
1	B	0.22	0/5746	0.37	0/7788
All	All	0.22	0/11313	0.37	0/15331

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

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	5449	5131	5130	6	0
1	B	5624	5348	5347	10	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	5	0	0	0	0
3	B	5	0	0	0	0
4	A	27	12	12	0	0
4	B	27	12	12	0	0
5	A	4	6	6	0	0
5	B	8	12	12	0	0
6	A	4	6	6	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	A	229	0	0	1	0
7	B	143	0	0	1	0
All	All	11527	10527	10525	16	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 (16) 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:A:461:GLN:NE2	1:A:491:GLN:OE1	2.32	0.61
1:B:461:GLN:NE2	1:B:491:GLN:OE1	2.33	0.61
1:A:282:GLU:OE1	7:A:901:HOH:O	2.16	0.60
1:B:148:MET:SD	1:B:429:THR:OG1	2.60	0.60
1:A:398:ARG:NH2	6:A:805:DMS:O	2.36	0.58
1:A:30:ASP:OD1	1:A:31:TYR:N	2.43	0.52
1:B:227:ASP:OD2	1:B:229:GLN:NE2	2.47	0.48
1:B:228:GLU:OE1	1:B:228:GLU:N	2.47	0.48
1:B:677:GLU:N	1:B:677:GLU:OE1	2.44	0.48
1:B:282:GLU:OE1	7:B:901:HOH:O	2.20	0.47
1:B:538:LYS:NZ	1:B:542:SER:O	2.45	0.47
1:B:491:GLN:N	1:B:492:PRO:CD	2.79	0.45
1:B:519:GLU:N	1:B:519:GLU:OE1	2.48	0.44
1:A:491:GLN:N	1:A:492:PRO:CD	2.81	0.44
1:A:12:ARG:NH2	1:A:64:ASP:OD1	2.53	0.42
1:B:391:ARG:HB3	1:B:392:PRO:HD3	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	686/750 (92%)	664 (97%)	21 (3%)	1 (0%)	55	72
1	B	703/750 (94%)	679 (97%)	22 (3%)	2 (0%)	44	60
All	All	1389/1500 (93%)	1343 (97%)	43 (3%)	3 (0%)	51	67

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	241	LEU
1	A	241	LEU
1	B	151	ASN

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	556/669 (83%)	549 (99%)	7 (1%)	73	87
1	B	581/669 (87%)	578 (100%)	3 (0%)	91	96
All	All	1137/1338 (85%)	1127 (99%)	10 (1%)	82	92

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	64	ASP
1	A	89	ILE
1	A	133	MET
1	A	437	TYR
1	A	547	VAL
1	A	690	TRP
1	A	747	TYR
1	B	133	MET
1	B	437	TYR
1	B	702	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 10 ligands modelled in this entry, 2 are monoatomic - leaving 8 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	802	2,4	1,4,4	0.70	0	0,6,6	0.00	-
4	ADP	A	803	3,2	25,29,29	0.95	1 (4%)	24,45,45	1.70	2 (8%)
5	EDO	A	804	-	3,3,3	0.46	0	2,2,2	0.31	0
6	DMS	A	805	-	3,3,3	0.66	0	3,3,3	0.42	0
3	VO4	B	802	2,4	1,4,4	0.75	0	0,6,6	0.00	-
4	ADP	B	803	3,2	25,29,29	1.00	1 (4%)	24,45,45	1.72	2 (8%)
5	EDO	B	804	-	3,3,3	0.47	0	2,2,2	0.30	0
5	EDO	B	805	-	3,3,3	0.47	0	2,2,2	0.31	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
3	VO4	A	802	2,4	-	0/0/0/0	0/0/0/0
4	ADP	A	803	3,2	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	EDO	A	804	-	-	0/1/1/1	0/0/0/0
6	DMS	A	805	-	-	0/0/0/0	0/0/0/0
3	VO4	B	802	2,4	-	0/0/0/0	0/0/0/0
4	ADP	B	803	3,2	-	0/12/32/32	0/3/3/3
5	EDO	B	804	-	-	0/1/1/1	0/0/0/0
5	EDO	B	805	-	-	0/1/1/1	0/0/0/0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	803	ADP	C5-C4	2.89	1.47	1.40
4	B	803	ADP	C5-C4	2.95	1.47	1.40

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	803	ADP	N3-C2-N1	-6.81	122.93	128.86
4	A	803	ADP	N3-C2-N1	-6.80	122.94	128.86
4	B	803	ADP	C4-C5-N7	-2.65	106.84	109.41
4	A	803	ADP	C4-C5-N7	-2.51	106.99	109.41

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	805	DMS	1	0

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	697/750 (92%)	1.01	70 (10%) 8 7	40, 65, 157, 189	0
1	B	712/750 (94%)	1.04	94 (13%) 4 3	41, 86, 143, 190	0
All	All	1409/1500 (93%)	1.03	164 (11%) 5 5	40, 74, 147, 190	0

All (164) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	234	GLY	9.0
1	A	690	TRP	8.7
1	A	7	TYR	8.5
1	A	738	ILE	8.4
1	B	724	LEU	8.3
1	B	720	VAL	7.5
1	A	60	LEU	6.9
1	B	717	CYS	6.7
1	A	691	THR	6.7
1	A	740	PHE	6.6
1	B	721	LEU	6.6
1	A	696	TYR	6.5
1	A	482	TRP	6.1
1	A	733	PHE	5.9
1	A	692	TYR	5.9
1	B	716	VAL	5.9
1	B	692	TYR	5.9
1	A	717	CYS	5.6
1	B	738	ILE	5.6
1	B	687	PRO	5.5
1	B	702	LEU	5.5
1	A	739	PHE	5.4
1	A	480	ILE	5.3
1	A	13	VAL	5.1

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Mol	Chain	Res	Type	RSRZ
1	B	118	GLY	4.9
1	A	721	LEU	4.9
1	A	731	TYR	4.8
1	B	28	ALA	4.7
1	A	689	ARG	4.6
1	A	734	GLY	4.5
1	A	66	LEU	4.5
1	B	745	VAL	4.5
1	B	189	HIS	4.4
1	B	72	LEU	4.2
1	B	746	ALA	4.2
1	A	50	TYR	4.2
1	B	712	ASP	4.2
1	A	38	LEU	4.2
1	B	679	ILE	4.1
1	A	75	LEU	4.1
1	A	695	PHE	4.1
1	B	733	PHE	4.0
1	B	741	ARG	4.0
1	B	179	ALA	4.0
1	A	747	TYR	3.9
1	A	736	THR	3.9
1	A	31	TYR	3.8
1	B	740	PHE	3.8
1	A	719	VAL	3.8
1	A	746	ALA	3.7
1	B	78	LEU	3.7
1	A	720	VAL	3.7
1	A	40	LEU	3.6
1	B	386	VAL	3.6
1	A	723	ARG	3.6
1	B	736	THR	3.6
1	A	697	SER	3.5
1	B	224	ILE	3.5
1	A	25	ALA	3.5
1	A	686	TYR	3.5
1	A	714	LYS	3.4
1	A	77	TYR	3.3
1	B	570	VAL	3.3
1	A	58	PRO	3.3
1	B	74	ALA	3.3
1	B	701	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
1	A	735	LYS	3.3
1	A	11	ASN	3.3
1	B	177	TYR	3.3
1	A	12	ARG	3.3
1	B	731	TYR	3.2
1	B	754	ASP	3.2
1	A	716	VAL	3.2
1	A	742	ALA	3.2
1	B	690	TRP	3.1
1	B	421	LEU	3.1
1	B	232	ILE	3.1
1	B	571	TYR	3.1
1	B	114	LEU	3.0
1	A	184	SER	3.0
1	B	742	ALA	3.0
1	B	684	GLN	2.9
1	B	431	ILE	2.9
1	B	429	THR	2.9
1	A	592	GLU	2.9
1	B	42	LEU	2.8
1	B	585	LEU	2.8
1	B	747	TYR	2.8
1	A	713	LYS	2.8
1	B	75	LEU	2.8
1	B	502	GLY	2.8
1	A	743	GLY	2.8
1	B	125	TYR	2.8
1	B	578	LEU	2.7
1	B	180	THR	2.7
1	A	65	ILE	2.7
1	B	751	LEU	2.7
1	B	6	LEU	2.7
1	A	44	ASP	2.7
1	B	181	VAL	2.7
1	B	719	VAL	2.7
1	B	574	LEU	2.7
1	B	695	PHE	2.7
1	A	475	TYR	2.6
1	B	722	HIS	2.6
1	B	145	TYR	2.6
1	A	188	ALA	2.6
1	B	482	TRP	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	96	LEU	2.6
1	B	468	PHE	2.5
1	A	737	LYS	2.5
1	B	60	LEU	2.5
1	B	364	LEU	2.5
1	A	207	ALA	2.5
1	A	693	ILE	2.5
1	A	54	PRO	2.5
1	A	698	ARG	2.5
1	B	193	LYS	2.5
1	A	621	ARG	2.5
1	B	732	GLN	2.5
1	B	46	THR	2.5
1	A	694	GLU	2.5
1	B	650	ILE	2.5
1	A	436	ILE	2.4
1	B	33	VAL	2.4
1	B	171	ALA	2.4
1	B	68	GLY	2.4
1	B	91	PHE	2.4
1	A	150	ARG	2.4
1	B	726	GLN	2.3
1	B	688	SER	2.3
1	A	515	HIS	2.3
1	B	691	THR	2.3
1	B	681	ILE	2.3
1	A	76	SER	2.3
1	A	216	SER	2.3
1	A	8	THR	2.2
1	B	57	LEU	2.2
1	B	748	LEU	2.2
1	A	39	ARG	2.2
1	B	734	GLY	2.2
1	B	438	GLY	2.2
1	B	459	LEU	2.2
1	B	714	LYS	2.2
1	B	711	SER	2.2
1	A	26	GLU	2.2
1	A	547	VAL	2.2
1	B	133	MET	2.2
1	B	590	PHE	2.2
1	B	451	CYS	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	130	MET	2.2
1	B	216	SER	2.2
1	B	100	TYR	2.1
1	B	475	TYR	2.1
1	B	474	GLU	2.1
1	A	205	GLY	2.1
1	B	698	ARG	2.1
1	A	481	PRO	2.0
1	B	204	VAL	2.0
1	B	123	HIS	2.0
1	B	263	LEU	2.0
1	B	436	ILE	2.0
1	A	219	GLY	2.0
1	A	732	GLN	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 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
5	EDO	A	804	4/4	0.99	0.27	6.68	57,68,69,70	0
5	EDO	B	805	4/4	0.79	0.28	5.74	76,91,92,93	0
2	MG	A	801	1/1	0.99	0.33	4.98	43,43,43,43	0
5	EDO	B	804	4/4	0.84	0.25	3.42	80,96,99,100	0
2	MG	B	801	1/1	0.93	0.25	1.59	58,58,58,58	0
6	DMS	A	805	4/4	0.93	0.22	1.55	84,115,162,162	0
3	VO4	B	802	5/5	0.99	0.24	1.06	39,52,61,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
4	ADP	A	803	27/27	0.98	0.22	0.36	40,52,63,64	0
4	ADP	B	803	27/27	0.97	0.21	0.30	47,64,77,81	0
3	VO4	A	802	5/5	0.99	0.24	0.26	32,44,45,53	0

6.5 Other polymers [i](#)

There are no such residues in this entry.