



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 04:41 PM GMT

PDB ID : 4FRZ
Title : Arabidopsis KCBP motor domain dimerized via regulatory domain
Authors : Vinogradova, M.
Deposited on : 2012-06-26
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 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
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) : trunk26865

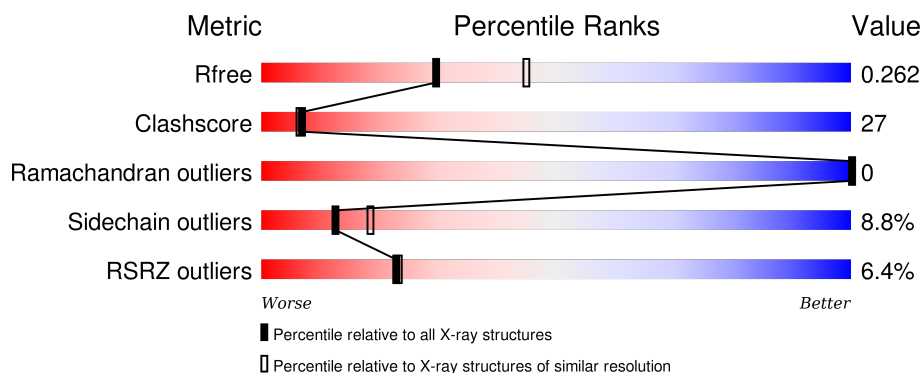
1 Overall quality at a glance ⓘ

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}	91344	2919 (2.40-2.40)
Clashscore	102246	3407 (2.40-2.40)
Ramachandran outliers	100387	3351 (2.40-2.40)
Sidechain outliers	100360	3352 (2.40-2.40)
RSRZ outliers	91569	2928 (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	386	<div> <div>7%</div> <div>55%</div> <div>32%</div> <div>5%</div> <div>8%</div> </div>
1	B	386	<div> <div>5%</div> <div>56%</div> <div>30%</div> <div>•</div> <div>10%</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
4	IMD	A	1304	-	-	X	X

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 5831 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 Kinesin-like calmodulin-binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	356	Total	C	N	O	S	0	0	0
			2840	1776	501	550	13			
1	B	349	Total	C	N	O	S	0	0	0
			2805	1761	492	540	12			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1131	ASN	CYS	ENGINEERED MUTATION	UNP Q9FHN8
B	1131	ASN	CYS	ENGINEERED MUTATION	UNP Q9FHN8

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

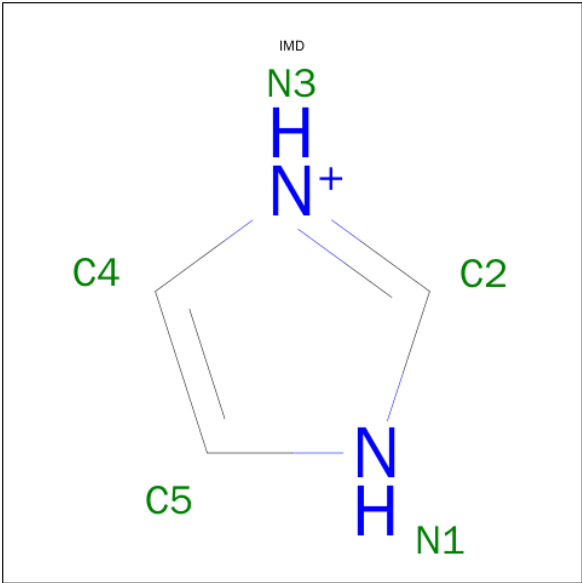
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Mg	0	0
			1	1		
2	A	1	Total	Mg	0	0
			1	1		

- Molecule 3 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
3	B	1	Total	C	N	O	P	0	0
			27	10	5	10	2		

- Molecule 4 is IMIDAZOLE (three-letter code: IMD) (formula: C₃H₅N₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	N	0	0
			5	3	2		
4	A	1	Total	C	N	0	0
			5	3	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	N	0	0
			5	3	2		
4	B	1	Total	C	N	0	0
			5	3	2		

- Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	54	Total	O	0	0
			54	54		
6	B	44	Total	O	0	0
			44	44		

ARG
THR
ARG
LYS
ASP
GLU
ALA
ASP
SER

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	45.71Å 75.07Å 120.60Å 90.00° 91.45° 90.00°	Depositor
Resolution (Å)	25.00 – 2.40 24.50 – 2.39	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.40) 91.6 (24.50-2.39)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.58 (at 2.39Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.225 , (Not available) 0.225 , 0.262	Depositor DCC
R_{free} test set	2948 reflections (10.00%)	DCC
Wilson B-factor (Å ²)	27.7	Xtriage
Anisotropy	0.253	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 43.0	EDS
Estimated twinning fraction	0.039 for h,-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	0 of 29645 reflections	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	5831	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.13% 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, 0.375 respectively for untwinned datasets, and 0.333, 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, IMD, ADP, EDO

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	0.55	1/2881 (0.0%)	0.78	3/3869 (0.1%)
1	B	0.54	0/2846	0.79	2/3822 (0.1%)
All	All	0.54	1/5727 (0.0%)	0.78	5/7691 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	924	TRP	C-N	5.68	1.47	1.34

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	923	PRO	N-CA-CB	5.86	110.33	103.30
1	A	1229	LEU	CA-CB-CG	-5.77	102.02	115.30
1	B	1033	ALA	CB-CA-C	5.59	118.49	110.10
1	A	928	LYS	N-CA-C	-5.54	96.03	111.00
1	A	923	PRO	N-CA-CB	5.03	109.34	103.30

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	2840	0	2862	153	0
1	B	2805	0	2826	157	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	27	0	12	0	0
3	B	27	0	12	0	0
4	A	15	0	15	9	0
4	B	5	0	5	0	0
5	A	4	0	6	0	0
5	B	8	0	12	3	0
6	A	54	0	0	2	0
6	B	44	0	0	4	0
All	All	5831	0	5750	307	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 27.

All (307) 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:1234:LYS:HD3	1:A:1241:GLY:CA	1.38	1.48
1:A:1234:LYS:CD	1:A:1241:GLY:HA2	1.43	1.43
1:B:1024:LEU:HD22	1:B:1038:LEU:CD1	1.73	1.19
1:A:1047:MET:CE	4:A:1304:IMD:H4	1.78	1.13
1:B:1024:LEU:CD2	1:B:1038:LEU:CD1	2.32	1.06
1:B:1139:ILE:HG12	1:B:1140:ASN:H	1.25	1.02
1:A:1020:TYR:CD2	1:A:1021:GLN:HG3	1.94	1.02
1:A:1137:GLN:N	1:A:1140:ASN:HD22	1.58	1.01
1:B:1024:LEU:HD22	1:B:1038:LEU:HD12	1.38	0.99
1:A:1047:MET:HE3	4:A:1304:IMD:H4	1.01	0.99
1:B:1158:GLN:HA	1:B:1158:GLN:HE21	1.28	0.98
1:B:1024:LEU:CD2	1:B:1038:LEU:HD13	1.94	0.95
1:B:1024:LEU:HD22	1:B:1038:LEU:HD13	1.48	0.95
1:B:1024:LEU:CD2	1:B:1038:LEU:HD12	1.93	0.94
1:A:1047:MET:HE3	4:A:1304:IMD:C4	1.97	0.93
1:B:1019:LEU:HD12	1:B:1023:THR:O	1.69	0.93
1:B:1139:ILE:HG12	1:B:1140:ASN:N	1.85	0.91
1:B:1029:LEU:HD21	1:B:1035:ARG:HG2	1.52	0.88
1:B:1139:ILE:CG1	1:B:1140:ASN:H	1.86	0.88
1:A:1058:ILE:HD11	1:A:1067:ILE:HD12	1.57	0.87
1:B:1117:LEU:HD21	1:B:1171:MET:HE2	1.58	0.86
1:A:1140:ASN:O	1:A:1144:SER:HB2	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1088:ARG:HA	1:A:1139:ILE:HG21	1.60	0.82
1:A:1234:LYS:HE2	1:A:1240:LYS:O	1.80	0.82
1:A:900:ASN:ND2	1:A:903:GLU:HG3	1.95	0.82
1:B:1034:ARG:HB3	1:B:1036:LEU:CD1	2.11	0.81
1:B:1060:THR:HG22	1:B:1063:GLU:HB2	1.62	0.81
1:B:1017:VAL:HG21	1:B:1024:LEU:HD21	1.64	0.80
1:B:1020:TYR:CE2	1:B:1021:GLN:CD	2.55	0.80
1:B:1039:GLU:HG2	1:B:1041:LYS:HE3	1.62	0.80
1:B:1068:LEU:O	1:B:1072:SER:HB2	1.82	0.79
1:A:1234:LYS:HD3	1:A:1241:GLY:HA3	1.57	0.79
1:B:1072:SER:O	1:B:1075:ARG:HG3	1.83	0.79
1:A:1234:LYS:CE	1:A:1241:GLY:HA2	2.13	0.78
1:A:907:ARG:O	1:A:907:ARG:HG3	1.82	0.77
1:B:1118:ALA:HA	6:B:1409:HOH:O	1.85	0.77
1:B:898:PRO:HA	1:B:940:MET:CE	2.15	0.76
1:A:1236:GLN:HA	1:A:1236:GLN:OE1	1.84	0.76
1:A:1235:GLU:HG2	1:A:1240:LYS:HA	1.67	0.76
1:B:1139:ILE:HD13	1:B:1139:ILE:N	2.00	0.76
1:A:1020:TYR:HD2	1:A:1021:GLN:HG3	1.46	0.76
1:A:1060:THR:HG23	1:A:1063:GLU:HB2	1.69	0.75
1:B:923:PRO:HA	1:B:929:ARG:HG2	1.68	0.75
1:B:995:LYS:HE3	6:B:1412:HOH:O	1.87	0.74
1:A:1016:MET:CE	1:A:1071:GLY:HA3	2.17	0.74
1:B:1178:ASN:OD1	1:B:1214:PRO:HA	1.87	0.74
1:A:1016:MET:HE3	1:A:1071:GLY:HA3	1.69	0.74
1:B:1017:VAL:HG21	1:B:1024:LEU:CD2	2.19	0.73
1:A:1123:VAL:HG21	1:A:1139:ILE:HD11	1.70	0.73
1:B:1158:GLN:HA	1:B:1158:GLN:NE2	2.04	0.73
1:A:1226:LEU:O	1:A:1229:LEU:HB2	1.89	0.73
1:A:1229:LEU:HD12	1:A:1229:LEU:N	2.04	0.72
1:B:1024:LEU:HD23	1:B:1038:LEU:CD1	2.20	0.71
1:A:1234:LYS:CD	1:A:1241:GLY:CA	2.26	0.71
1:A:1237:ALA:HB2	1:B:1237:ALA:HA	1.71	0.71
1:A:912:LEU:HD13	1:A:1189:PRO:HA	1.71	0.70
1:B:1030:PRO:HA	5:B:1305:EDO:H11	1.73	0.69
1:B:1020:TYR:CE2	1:B:1021:GLN:HG3	2.28	0.68
1:B:1220:SER:O	1:B:1224:VAL:HG23	1.93	0.68
1:B:1058:ILE:HD11	1:B:1067:ILE:CD1	2.23	0.68
1:A:1137:GLN:N	1:A:1140:ASN:ND2	2.37	0.68
1:A:1236:GLN:OE1	1:A:1236:GLN:CA	2.41	0.68
1:A:912:LEU:N	1:A:912:LEU:HD12	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:898:PRO:HA	1:B:940:MET:HE2	1.76	0.68
1:A:1020:TYR:HE2	1:A:1021:GLN:NE2	1.91	0.67
1:A:1120:SER:HA	1:A:1143:LEU:HD12	1.76	0.67
1:A:1028:LEU:HD21	1:A:1067:ILE:HG23	1.75	0.67
1:B:1065:ARG:O	1:B:1069:GLU:HG2	1.95	0.66
1:A:1017:VAL:CG2	1:A:1024:LEU:HD22	2.26	0.65
1:B:1187:VAL:HG11	1:B:1197:THR:HG23	1.77	0.65
1:B:1020:TYR:CE2	1:B:1021:GLN:NE2	2.65	0.65
1:B:1020:TYR:OH	1:B:1021:GLN:NE2	2.30	0.65
1:B:1019:LEU:HD21	1:B:1165:HIS:HE1	1.62	0.64
1:A:953:TYR:CE1	1:A:954:LEU:HD13	2.33	0.64
1:A:898:PRO:HA	1:A:940:MET:HG3	1.79	0.64
1:B:890:ILE:HG12	1:B:1181:THR:HB	1.79	0.64
1:B:1058:ILE:HD11	1:B:1067:ILE:HD11	1.79	0.63
1:A:924:TRP:CD1	1:A:930:LYS:HE2	2.34	0.63
1:B:1020:TYR:CE2	1:B:1021:GLN:CG	2.82	0.63
1:B:1021:GLN:O	1:B:1022:ASP:HB2	1.98	0.62
1:A:1017:VAL:HG21	1:A:1024:LEU:HD22	1.81	0.62
1:A:1088:ARG:HA	1:A:1139:ILE:CG2	2.28	0.62
1:B:910:GLN:HE22	1:B:940:MET:HE3	1.63	0.62
1:A:1234:LYS:HD3	1:A:1241:GLY:HA2	0.65	0.61
1:B:1024:LEU:HD23	1:B:1038:LEU:HD12	1.81	0.61
1:B:1139:ILE:CD1	1:B:1139:ILE:N	2.64	0.61
1:A:1020:TYR:HE2	1:A:1021:GLN:HE21	1.46	0.61
1:B:912:LEU:HD11	1:B:1187:VAL:HG11	1.82	0.61
1:B:1020:TYR:CZ	1:B:1021:GLN:NE2	2.68	0.61
1:B:1028:LEU:O	1:B:1030:PRO:HD3	2.01	0.61
1:A:1150:ILE:HG23	1:A:1210:ILE:HD11	1.83	0.60
1:B:947:ILE:O	1:B:951:THR:HG23	2.02	0.59
1:A:1139:ILE:HG13	1:A:1140:ASN:N	2.17	0.59
1:A:1229:LEU:N	1:A:1229:LEU:CD1	2.65	0.59
1:A:898:PRO:HB3	1:A:940:MET:HG3	1.85	0.59
1:B:1139:ILE:CG1	1:B:1140:ASN:N	2.50	0.59
1:B:925:LYS:HG3	1:B:926:ASP:HA	1.85	0.59
1:A:1234:LYS:HB3	1:A:1241:GLY:HA3	1.85	0.58
1:B:1121:GLU:OE2	1:B:1121:GLU:N	2.35	0.58
1:A:1237:ALA:HB2	1:B:1237:ALA:CA	2.32	0.58
1:B:1146:LEU:HD11	1:B:1175:LEU:HD21	1.85	0.58
1:B:953:TYR:CE2	5:B:1304:EDO:H12	2.38	0.58
1:B:1020:TYR:O	1:B:1023:THR:HB	2.04	0.57
1:B:1001:LEU:HD11	1:B:1012:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:907:ARG:CG	1:A:907:ARG:O	2.51	0.57
1:A:1217:HIS:HB2	4:A:1304:IMD:C2	2.34	0.57
1:A:1062:GLU:O	1:A:1066:MET:HG2	2.04	0.57
1:B:1029:LEU:CD2	1:B:1035:ARG:HG2	2.29	0.57
1:B:1034:ARG:HB3	1:B:1036:LEU:HD11	1.85	0.57
1:B:925:LYS:HG3	1:B:926:ASP:CA	2.35	0.57
1:A:1122:ARG:NH2	1:A:1140:ASN:OD1	2.37	0.56
1:B:1105:GLN:HB2	1:B:1221:LYS:HD2	1.87	0.56
1:A:1234:LYS:CG	1:A:1241:GLY:CA	2.82	0.56
1:B:1158:GLN:HE21	1:B:1158:GLN:CA	2.08	0.56
1:A:1029:LEU:O	1:A:1074:ARG:NH1	2.34	0.56
1:A:1016:MET:HE2	1:A:1028:LEU:HD21	1.86	0.56
1:A:1143:LEU:N	1:A:1143:LEU:HD23	2.21	0.55
1:B:1146:LEU:HD11	1:B:1175:LEU:CD2	2.36	0.55
1:A:1065:ARG:CG	1:A:1065:ARG:HH11	2.19	0.55
1:A:898:PRO:CA	1:A:940:MET:HG3	2.36	0.55
1:A:924:TRP:HD1	1:A:930:LYS:HE2	1.70	0.55
1:B:967:PHE:HB3	1:B:1115:VAL:HB	1.89	0.55
1:B:886:MET:O	1:B:891:ARG:NH2	2.40	0.55
1:A:1215:SER:HA	4:A:1305:IMD:C2	2.37	0.55
1:A:1021:GLN:C	1:A:1023:THR:H	2.10	0.54
1:A:956:GLN:O	1:A:959:VAL:HG22	2.06	0.54
1:B:1075:ARG:NH2	1:B:1089:SER:OG	2.34	0.54
1:A:1139:ILE:HG13	1:A:1140:ASN:H	1.70	0.54
1:B:925:LYS:CG	1:B:926:ASP:HA	2.38	0.54
1:B:884:GLU:HA	1:B:887:LYS:HG2	1.89	0.54
1:B:1104:THR:HG22	1:B:1106:SER:HB2	1.90	0.54
1:A:912:LEU:N	1:A:912:LEU:CD1	2.70	0.54
1:B:912:LEU:HD23	1:B:922:HIS:HB3	1.88	0.54
1:B:1042:LYS:HD3	6:B:1417:HOH:O	2.08	0.54
1:B:1019:LEU:HD21	1:B:1165:HIS:CE1	2.43	0.53
1:A:898:PRO:HB3	1:A:940:MET:CG	2.38	0.53
1:B:1060:THR:CG2	1:B:1063:GLU:HB2	2.35	0.53
1:B:967:PHE:CB	1:B:1115:VAL:HB	2.38	0.53
1:B:1001:LEU:HD22	1:B:1010:PHE:CG	2.44	0.53
1:A:1064:LEU:O	1:A:1068:LEU:HG	2.07	0.53
1:B:953:TYR:CE1	1:B:954:LEU:HD13	2.44	0.53
1:A:1078:SER:OG	1:A:1081:ASN:O	2.26	0.53
1:A:1013:LYS:HD2	6:A:1451:HOH:O	2.08	0.53
1:A:947:ILE:O	1:A:951:THR:HG23	2.09	0.53
1:A:900:ASN:HD21	1:A:903:GLU:HG3	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1068:LEU:O	1:A:1072:SER:OG	2.22	0.53
1:B:897:ARG:NH2	1:B:1188:SER:HB2	2.23	0.53
1:A:1020:TYR:CE2	1:A:1021:GLN:HG3	2.41	0.53
1:B:1020:TYR:CD2	1:B:1021:GLN:HG3	2.44	0.52
1:A:902:LYS:HA	1:A:905:SER:OG	2.09	0.52
1:A:1198:TYR:CZ	1:A:1202:LEU:HD11	2.45	0.52
1:A:1185:VAL:HG13	1:A:1185:VAL:O	2.09	0.52
1:A:1244:GLU:CG	1:A:1245:ASP:N	2.72	0.52
1:A:911:MET:HG3	1:A:1191:GLU:HA	1.91	0.52
1:B:931:GLN:NE2	6:B:1432:HOH:O	2.42	0.52
1:A:1215:SER:O	4:A:1304:IMD:H2	2.09	0.52
1:A:1016:MET:HE1	1:A:1071:GLY:HA3	1.91	0.52
1:B:1058:ILE:HG13	1:B:1064:LEU:HD12	1.91	0.52
1:A:898:PRO:CB	1:A:940:MET:HG3	2.41	0.51
1:B:1103:GLN:HG3	1:B:1104:THR:N	2.26	0.51
1:A:917:GLU:CD	1:A:917:GLU:H	2.14	0.51
1:A:1234:LYS:O	1:A:1239:LYS:O	2.28	0.51
1:B:1068:LEU:O	1:B:1072:SER:CB	2.57	0.51
1:B:925:LYS:CG	1:B:926:ASP:CA	2.89	0.51
1:A:895:ARG:CZ	1:A:947:ILE:HD12	2.41	0.51
1:B:930:LYS:HD3	1:B:1198:TYR:HE1	1.75	0.51
1:A:891:ARG:HA	1:A:935:ASP:OD1	2.11	0.51
1:A:1061:LEU:O	1:A:1061:LEU:HD12	2.11	0.51
1:A:1137:GLN:CB	1:A:1139:ILE:HG12	2.41	0.51
1:B:1165:HIS:ND1	1:B:1166:LYS:N	2.59	0.51
1:B:1058:ILE:HD11	1:B:1067:ILE:HD12	1.92	0.51
1:B:1034:ARG:HH11	1:B:1034:ARG:HA	1.76	0.50
1:A:1015:TYR:HB3	1:A:1055:THR:HG22	1.93	0.50
1:B:1061:LEU:HD12	1:B:1061:LEU:O	2.11	0.50
1:A:1013:LYS:HA	1:A:1056:ILE:O	2.10	0.50
1:A:1056:ILE:HG21	1:A:1067:ILE:HD11	1.94	0.50
1:A:1225:ARG:O	1:A:1229:LEU:HD13	2.11	0.50
1:A:1047:MET:CE	4:A:1304:IMD:C4	2.69	0.50
1:A:1105:GLN:HG3	1:A:1221:LYS:NZ	2.27	0.50
1:A:1105:GLN:HG3	1:A:1221:LYS:HZ3	1.76	0.50
1:A:1215:SER:HA	4:A:1305:IMD:H2	1.94	0.50
1:B:1063:GLU:O	1:B:1067:ILE:HG13	2.12	0.50
1:A:891:ARG:NH2	1:A:953:TYR:OH	2.45	0.50
1:B:1020:TYR:HE2	1:B:1021:GLN:CD	2.11	0.49
1:B:1039:GLU:CG	1:B:1041:LYS:HE3	2.38	0.49
1:A:921:GLU:HB2	1:A:930:LYS:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:927:ASP:OD1	1:A:927:ASP:O	2.30	0.49
1:A:1137:GLN:N	1:A:1140:ASN:HB3	2.27	0.49
1:A:1092:ILE:HG12	1:A:1115:VAL:HG13	1.94	0.49
1:A:1230:VAL:O	1:A:1234:LYS:HB2	2.13	0.49
1:B:1065:ARG:O	1:B:1069:GLU:CG	2.61	0.48
1:A:1017:VAL:HG22	1:A:1024:LEU:HD22	1.95	0.48
1:A:930:LYS:HD2	1:A:1198:TYR:HE1	1.78	0.48
1:B:922:HIS:HE1	1:B:932:HIS:NE2	2.12	0.48
1:B:925:LYS:CB	1:B:926:ASP:HA	2.44	0.48
1:B:1021:GLN:O	1:B:1022:ASP:CB	2.62	0.48
1:A:1051:GLU:O	1:A:1052:ASN:HB2	2.13	0.48
1:A:948:PHE:O	1:A:952:LYS:HB2	2.14	0.48
1:B:1026:ASP:OD2	1:B:1026:ASP:C	2.52	0.48
1:B:926:ASP:O	1:B:927:ASP:HB2	2.14	0.47
1:B:936:ARG:NH1	1:B:950:ASP:OD2	2.47	0.47
1:B:1061:LEU:HD12	1:B:1061:LEU:C	2.34	0.47
1:A:1124:LYS:N	1:A:1124:LYS:HD2	2.29	0.47
1:B:1109:ARG:HD2	1:B:1217:HIS:CE1	2.50	0.47
1:B:925:LYS:HG3	1:B:926:ASP:CB	2.44	0.47
1:B:1017:VAL:CG2	1:B:1024:LEU:HD23	2.45	0.47
1:B:1185:VAL:O	1:B:1185:VAL:HG13	2.15	0.47
1:A:1021:GLN:C	1:A:1023:THR:N	2.67	0.46
1:A:1021:GLN:O	1:A:1023:THR:N	2.49	0.46
1:A:1003:ARG:NH1	1:A:1004:ASP:OD1	2.48	0.46
1:B:1139:ILE:CD1	1:B:1140:ASN:H	2.27	0.46
1:A:940:MET:HG2	1:A:940:MET:O	2.15	0.46
1:A:1065:ARG:CG	1:A:1065:ARG:NH1	2.77	0.46
1:B:902:LYS:HD2	1:B:906:GLU:OE2	2.15	0.46
1:B:1017:VAL:CG2	1:B:1024:LEU:CD2	2.93	0.46
1:B:892:VAL:HG11	1:B:1204:ALA:HB1	1.97	0.45
1:A:1158:GLN:HA	1:A:1158:GLN:NE2	2.31	0.45
1:B:1020:TYR:HE1	1:B:1085:GLU:N	2.14	0.45
1:A:897:ARG:O	1:A:1189:PRO:HD3	2.15	0.45
1:A:956:GLN:NE2	1:A:959:VAL:CG2	2.79	0.45
1:B:1109:ARG:HG2	1:B:1109:ARG:O	2.15	0.45
1:A:897:ARG:HH22	1:A:903:GLU:CD	2.19	0.45
1:A:1052:ASN:HD22	1:A:1052:ASN:N	2.14	0.45
1:B:1247:VAL:CG1	1:B:1248:ASP:N	2.79	0.45
1:A:1058:ILE:HD11	1:A:1067:ILE:CD1	2.35	0.45
1:A:1105:GLN:CG	1:A:1221:LYS:NZ	2.80	0.45
1:A:1069:GLU:O	1:A:1073:GLU:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1077:VAL:O	1:B:1077:VAL:HG12	2.16	0.45
1:A:1235:GLU:CG	1:A:1240:LYS:HG2	2.47	0.45
1:B:1139:ILE:O	1:B:1143:LEU:HD23	2.17	0.45
1:A:1048:VAL:HG13	1:A:1173:ASP:CG	2.37	0.45
1:A:1020:TYR:CE2	1:A:1021:GLN:NE2	2.76	0.45
1:B:902:LYS:HZ3	1:B:906:GLU:CD	2.19	0.45
1:B:1177:GLY:O	1:B:1212:ASN:HB3	2.17	0.45
1:A:1028:LEU:CD2	1:A:1067:ILE:HG23	2.44	0.44
1:B:1050:VAL:HG13	1:B:1053:VAL:HG11	1.99	0.44
1:A:1235:GLU:HG2	1:A:1240:LYS:HG2	1.99	0.44
1:B:953:TYR:CD2	5:B:1304:EDO:H12	2.52	0.44
1:B:978:PHE:HZ	1:B:986:ASN:HD22	1.63	0.44
1:A:967:PHE:HB3	1:A:1115:VAL:HB	2.00	0.44
1:B:1225:ARG:HB2	1:B:1225:ARG:HE	1.67	0.44
1:A:1017:VAL:HG22	1:A:1018:GLU:N	2.33	0.44
1:B:1187:VAL:HG13	1:B:1197:THR:OG1	2.17	0.44
1:B:1104:THR:O	1:B:1105:GLN:HB2	2.17	0.44
1:B:1247:VAL:HG12	1:B:1248:ASP:N	2.33	0.44
1:B:1029:LEU:HD12	1:B:1030:PRO:HD2	2.00	0.43
1:B:897:ARG:O	1:B:1189:PRO:HD3	2.17	0.43
1:B:941:ARG:CZ	1:B:941:ARG:HB2	2.48	0.43
1:B:1143:LEU:HD22	1:B:1143:LEU:N	2.34	0.43
1:B:1034:ARG:HB3	1:B:1036:LEU:HD13	1.97	0.43
1:B:1117:LEU:HD21	1:B:1171:MET:CE	2.39	0.43
1:A:969:TYR:CZ	1:A:1120:SER:HB2	2.54	0.43
1:B:1065:ARG:O	1:B:1065:ARG:HG2	2.18	0.43
1:B:910:GLN:HE21	1:B:910:GLN:HB3	1.56	0.43
1:B:958:ALA:O	1:B:1110:GLY:HA3	2.19	0.43
1:A:1223:MET:HE3	1:B:1223:MET:HG2	2.00	0.43
1:A:1159:HIS:C	1:A:1160:ILE:HD13	2.38	0.43
1:A:962:TYR:OH	1:A:1216:LYS:HE2	2.19	0.43
1:B:1187:VAL:CG1	1:B:1197:THR:HG23	2.47	0.42
1:B:907:ARG:HH11	1:B:907:ARG:HG2	1.84	0.42
4:A:1303:IMD:H2	6:A:1419:HOH:O	2.18	0.42
1:A:1205:SER:O	1:A:1209:THR:HG23	2.19	0.42
1:A:1225:ARG:HG2	1:A:1225:ARG:HH11	1.84	0.42
1:A:930:LYS:HD2	1:A:1198:TYR:CE1	2.54	0.42
1:B:925:LYS:HG2	1:B:926:ASP:N	2.34	0.42
1:B:1170:LEU:HD12	1:B:1170:LEU:HA	1.90	0.42
1:A:1006:LYS:NZ	1:A:1006:LYS:HB2	2.34	0.42
1:B:1235:GLU:O	1:B:1238:GLY:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1094:SER:HB3	1:A:1111:LYS:HE2	2.01	0.42
1:B:1050:VAL:HG13	1:B:1053:VAL:CG1	2.50	0.42
1:B:944:GLN:HG2	1:B:986:ASN:HD21	1.84	0.42
1:B:946:ASP:O	1:B:949:GLU:HB3	2.19	0.42
1:A:929:ARG:HB3	1:A:929:ARG:CZ	2.48	0.42
1:A:888:GLY:HA2	1:A:1214:PRO:HD3	2.00	0.42
1:A:1037:LYS:HG2	1:A:1037:LYS:H	1.67	0.42
1:B:1234:LYS:O	1:B:1237:ALA:HB3	2.20	0.42
1:A:1220:SER:H	1:A:1223:MET:HG3	1.84	0.42
1:A:1139:ILE:CG1	1:A:1140:ASN:N	2.82	0.42
1:A:903:GLU:O	1:A:908:GLU:HG3	2.20	0.42
1:B:1069:GLU:H	1:B:1069:GLU:HG2	1.56	0.42
1:A:927:ASP:CG	1:A:927:ASP:O	2.58	0.42
1:A:1219:SER:HB3	1:A:1223:MET:HB2	2.02	0.42
1:A:1197:THR:O	1:A:1201:LEU:HG	2.20	0.42
1:A:1237:ALA:CB	1:B:1237:ALA:HA	2.46	0.41
1:B:1104:THR:CG2	1:B:1106:SER:HB2	2.50	0.41
1:A:1029:LEU:HD22	1:A:1035:ARG:HB3	2.02	0.41
1:A:1139:ILE:CG1	1:A:1140:ASN:H	2.32	0.41
1:B:1039:GLU:HB3	1:B:1051:GLU:HB3	2.02	0.41
1:B:897:ARG:CZ	1:B:1188:SER:HB2	2.50	0.41
1:B:1247:VAL:HG12	1:B:1248:ASP:O	2.20	0.41
1:A:983:HIS:HD2	1:A:985:SER:OG	2.03	0.41
1:A:1120:SER:HA	1:A:1143:LEU:CD1	2.48	0.41
1:A:1244:GLU:HG2	1:A:1245:ASP:N	2.29	0.41
1:B:1109:ARG:HG3	1:B:1109:ARG:NH1	2.36	0.41
1:A:1060:THR:HG23	1:A:1063:GLU:CB	2.43	0.41
1:A:1105:GLN:CG	1:A:1221:LYS:HZ3	2.33	0.41
1:A:1158:GLN:HE21	1:A:1158:GLN:CA	2.34	0.41
1:B:1194:LEU:HA	1:B:1194:LEU:HD23	1.94	0.40
1:B:994:THR:HG22	1:B:1061:LEU:HD13	2.03	0.40
1:B:1056:ILE:HA	1:B:1057:PRO:HD3	1.96	0.40
1:B:1070:ARG:HG3	1:B:1071:GLY:N	2.36	0.40
1:A:936:ARG:HD2	1:A:936:ARG:HA	1.81	0.40
1:B:1035:ARG:HB3	1:B:1035:ARG:HE	1.42	0.40
1:B:910:GLN:NE2	1:B:940:MET:HE3	2.32	0.40
1:A:1018:GLU:HB3	1:A:1025:VAL:CG2	2.52	0.40
1:B:1103:GLN:HG3	1:B:1104:THR:H	1.86	0.40
1:B:1070:ARG:CG	1:B:1071:GLY:N	2.84	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	352/386 (91%)	339 (96%)	13 (4%)	0	100	100
1	B	341/386 (88%)	330 (97%)	11 (3%)	0	100	100
All	All	693/772 (90%)	669 (96%)	24 (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	319/346 (92%)	286 (90%)	33 (10%)	9	13
1	B	315/346 (91%)	292 (93%)	23 (7%)	17	27
All	All	634/692 (92%)	578 (91%)	56 (9%)	12	18

All (56) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	900	ASN
1	A	902	LYS
1	A	909	LYS
1	A	910	GLN
1	A	912	LEU
1	A	929	ARG
1	A	954	LEU
1	A	1013	LYS

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Mol	Chain	Res	Type
1	A	1048	VAL
1	A	1050	VAL
1	A	1053	VAL
1	A	1059	SER
1	A	1060	THR
1	A	1062	GLU
1	A	1065	ARG
1	A	1070	ARG
1	A	1085	GLU
1	A	1091	LEU
1	A	1109	ARG
1	A	1113	SER
1	A	1120	SER
1	A	1123	VAL
1	A	1124	LYS
1	A	1140	ASN
1	A	1170	LEU
1	A	1174	SER
1	A	1194	LEU
1	A	1217	HIS
1	A	1228	LYS
1	A	1236	GLN
1	A	1239	LYS
1	A	1244	GLU
1	A	1253	ARG
1	B	910	GLN
1	B	925	LYS
1	B	947	ILE
1	B	954	LEU
1	B	959	VAL
1	B	1007	ARG
1	B	1009	SER
1	B	1034	ARG
1	B	1035	ARG
1	B	1036	LEU
1	B	1037	LYS
1	B	1061	LEU
1	B	1069	GLU
1	B	1076	HIS
1	B	1139	ILE
1	B	1158	GLN
1	B	1170	LEU

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Mol	Chain	Res	Type
1	B	1171	MET
1	B	1188	SER
1	B	1194	LEU
1	B	1225	ARG
1	B	1245	ASP
1	B	1250	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (19) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	900	ASN
1	A	922	HIS
1	A	931	GLN
1	A	971	GLN
1	A	983	HIS
1	A	1052	ASN
1	A	1076	HIS
1	A	1103	GLN
1	A	1157	ASN
1	A	1158	GLN
1	A	1193	ASN
1	B	922	HIS
1	B	931	GLN
1	B	986	ASN
1	B	1021	GLN
1	B	1103	GLN
1	B	1157	ASN
1	B	1158	GLN
1	B	1217	HIS

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 11 ligands modelled in this entry, 2 are monoatomic - leaving 9 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	ADP	A	1302	2	22,29,29	1.11	1 (4%)	27,45,45	1.79	3 (11%)
4	IMD	A	1303	-	3,5,5	0.39	0	4,5,5	0.59	0
4	IMD	A	1304	-	3,5,5	0.74	0	4,5,5	0.68	0
4	IMD	A	1305	-	3,5,5	0.41	0	4,5,5	0.60	0
5	EDO	A	1306	-	3,3,3	0.86	0	2,2,2	0.47	0
3	ADP	B	1302	2	22,29,29	1.11	1 (4%)	27,45,45	1.88	4 (14%)
4	IMD	B	1303	-	3,5,5	0.31	0	4,5,5	0.60	0
5	EDO	B	1304	-	3,3,3	0.47	0	2,2,2	0.18	0
5	EDO	B	1305	-	3,3,3	0.39	0	2,2,2	0.46	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	ADP	A	1302	2	-	0/12/32/32	0/3/3/3
4	IMD	A	1303	-	-	0/0/0/0	0/1/1/1
4	IMD	A	1304	-	-	0/0/0/0	0/1/1/1
4	IMD	A	1305	-	-	0/0/0/0	0/1/1/1
5	EDO	A	1306	-	-	0/1/1/1	0/0/0/0
3	ADP	B	1302	2	-	0/12/32/32	0/3/3/3
4	IMD	B	1303	-	-	0/0/0/0	0/1/1/1
5	EDO	B	1304	-	-	0/1/1/1	0/0/0/0
5	EDO	B	1305	-	-	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)
3	B	1302	ADP	C2-N1	3.33	1.40	1.33
3	A	1302	ADP	C2-N1	3.40	1.40	1.33

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	1302	ADP	N3-C2-N1	-7.30	123.31	128.89
3	A	1302	ADP	N3-C2-N1	-7.11	123.45	128.89
3	B	1302	ADP	C2'-C1'-N9	-2.15	111.00	114.29
3	A	1302	ADP	C2-N1-C6	2.43	123.11	118.77
3	B	1302	ADP	C2-N1-C6	2.57	123.36	118.77
3	A	1302	ADP	C4'-O4'-C1'	3.27	113.31	109.72
3	B	1302	ADP	C4'-O4'-C1'	3.69	113.77	109.72

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1303	IMD	1	0
4	A	1304	IMD	6	0
4	A	1305	IMD	2	0
5	B	1304	EDO	2	0
5	B	1305	EDO	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	356/386 (92%)	0.17	27 (7%) 17 16	9, 34, 70, 85	0
1	B	349/386 (90%)	0.07	18 (5%) 31 31	13, 33, 62, 84	0
All	All	705/772 (91%)	0.12	45 (6%) 23 23	9, 34, 67, 85	0

All (45) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1241	GLY	12.9
1	B	1033	ALA	6.3
1	A	1139	ILE	5.1
1	A	1242	GLU	4.9
1	A	1123	VAL	4.6
1	B	1034	ARG	4.5
1	A	1124	LYS	4.5
1	A	1240	LYS	4.5
1	A	886	MET	4.3
1	A	1235	GLU	4.2
1	B	1122	ARG	4.1
1	A	927	ASP	3.6
1	B	1032	SER	3.5
1	B	1244	GLU	3.2
1	A	907	ARG	3.2
1	B	1021	GLN	3.1
1	A	887	LYS	3.1
1	A	1032	SER	3.0
1	B	1077	VAL	3.0
1	A	1239	LYS	2.9
1	B	1139	ILE	2.7
1	A	1137	GLN	2.7
1	A	1034	ARG	2.6
1	A	1113	SER	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	1245	ASP	2.5
1	A	984	GLU	2.4
1	B	1158	GLN	2.4
1	B	1020	TYR	2.4
1	B	1085	GLU	2.4
1	A	1031	LYS	2.4
1	A	1253	ARG	2.4
1	B	1088	ARG	2.3
1	A	1037	LYS	2.3
1	A	901	GLU	2.2
1	A	928	LYS	2.2
1	A	983	HIS	2.2
1	B	1239	LYS	2.2
1	A	1103	GLN	2.2
1	B	926	ASP	2.2
1	B	1036	LEU	2.1
1	A	1238	GLY	2.1
1	A	1021	GLN	2.1
1	B	983	HIS	2.1
1	B	878	ARG	2.0
1	A	925	LYS	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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
4	IMD	A	1304	5/5	0.84	0.24	3.35	57,58,61,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
5	EDO	A	1306	4/4	0.89	0.21	1.59	43,47,51,53	0
4	IMD	B	1303	5/5	0.96	0.15	0.77	35,35,38,39	0
4	IMD	A	1303	5/5	0.90	0.24	0.39	53,54,57,58	0
5	EDO	B	1305	4/4	0.90	0.23	0.16	32,35,44,46	0
3	ADP	A	1302	27/27	0.97	0.12	-0.40	21,29,35,40	0
3	ADP	B	1302	27/27	0.97	0.12	-0.87	21,37,46,51	0
5	EDO	B	1304	4/4	0.85	0.20	-	44,47,49,52	0
2	MG	B	1301	1/1	0.93	0.11	-	30,30,30,30	0
4	IMD	A	1305	5/5	0.92	0.18	-	65,66,66,69	0
2	MG	A	1301	1/1	0.87	0.11	-	25,25,25,25	0

6.5 Other polymers [i](#)

There are no such residues in this entry.