



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 05:26 PM UTC

PDB ID : 3CZ6 / pdb_00003cz6
Title : Crystal Structure of the Rap1 C-terminus
Authors : Feeser, E.A.; Wolberger, C.
Deposited on : 2008-04-28
Resolution : 1.85 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	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

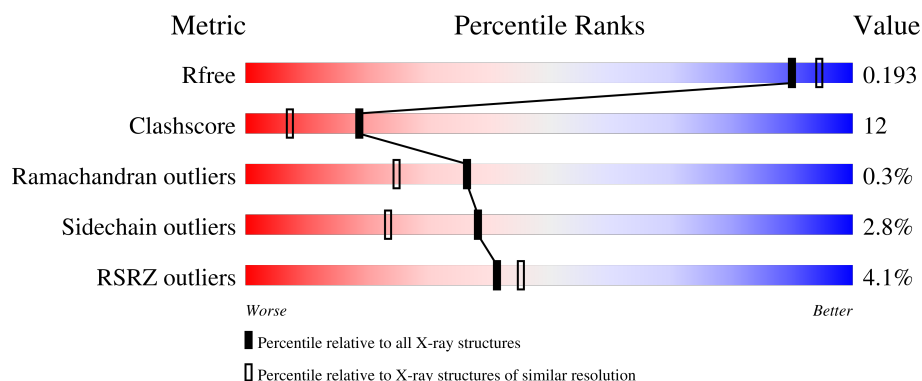
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 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	3428 (1.86-1.86)
Clashscore	190562	3579 (1.86-1.86)
Ramachandran outliers	187476	3553 (1.86-1.86)
Sidechain outliers	187428	3553 (1.86-1.86)
RSRZ outliers	180081	3429 (1.86-1.86)

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	168	3% 72% 17% • 10%
1	B	168	4% 68% 18% • 10%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 2814 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 DNA-binding protein RAP1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	151	Total	C	N	O	S	Se	0	0	0
			1237	785	208	237	2	5			
1	B	151	Total	C	N	O	S	Se	0	0	0
			1227	779	204	237	2	5			

There are 24 discrepancies between the modelled and reference sequences:

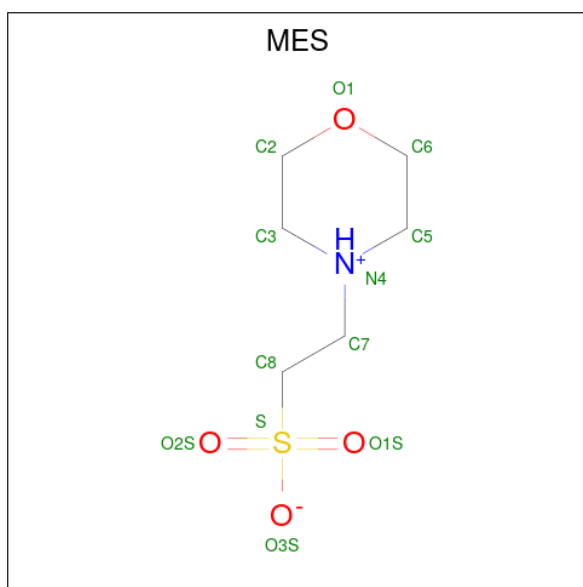
Chain	Residue	Modelled	Actual	Comment	Reference
A	671	GLY	-	expression tag	UNP P11938
A	828	VAL	-	expression tag	UNP P11938
A	829	PRO	-	expression tag	UNP P11938
A	830	ARG	-	expression tag	UNP P11938
A	831	GLY	-	expression tag	UNP P11938
A	832	SER	-	expression tag	UNP P11938
A	833	HIS	-	expression tag	UNP P11938
A	834	HIS	-	expression tag	UNP P11938
A	835	HIS	-	expression tag	UNP P11938
A	836	HIS	-	expression tag	UNP P11938
A	837	HIS	-	expression tag	UNP P11938
A	838	HIS	-	expression tag	UNP P11938
B	671	GLY	-	expression tag	UNP P11938
B	828	VAL	-	expression tag	UNP P11938
B	829	PRO	-	expression tag	UNP P11938
B	830	ARG	-	expression tag	UNP P11938
B	831	GLY	-	expression tag	UNP P11938
B	832	SER	-	expression tag	UNP P11938
B	833	HIS	-	expression tag	UNP P11938
B	834	HIS	-	expression tag	UNP P11938
B	835	HIS	-	expression tag	UNP P11938
B	836	HIS	-	expression tag	UNP P11938
B	837	HIS	-	expression tag	UNP P11938
B	838	HIS	-	expression tag	UNP P11938

- Molecule 2 is (4S)-2-METHYL-2,4-PENTANEDIOL (CCD ID: MPD) (formula: $C_6H_{14}O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			8	6	2		
2	A	1	Total	C	O	0	0
			8	6	2		
2	B	1	Total	C	O	0	0
			8	6	2		

- Molecule 3 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (CCD ID: MES) (formula: $C_6H_{13}NO_4S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	B	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
3	B	1	Total	C	N	O	S	0	0
			12	6	1	4	1		

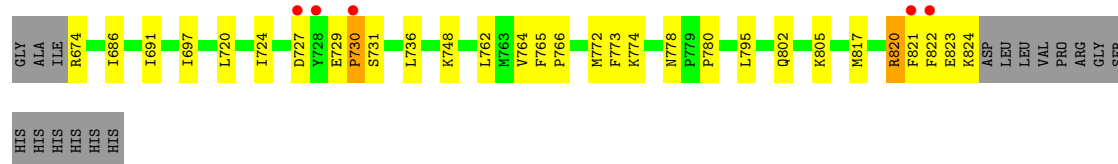
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	130	Total	O	0	0
			130	130		
4	B	172	Total	O	0	0
			172	172		

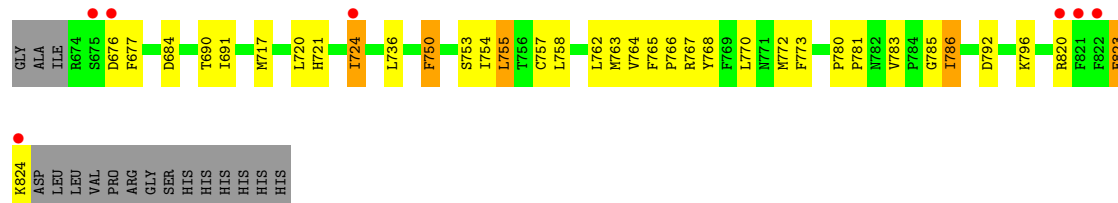
3 Residue-property plots [i](#)

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: DNA-binding protein RAP1



- Molecule 1: DNA-binding protein RAP1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	48.01Å 47.98Å 72.56Å 90.00° 94.23° 90.00°	Depositor
Resolution (Å)	50.00 – 1.85 50.00 – 1.85	Depositor EDS
% Data completeness (in resolution range)	(Not available) (50.00-1.85) 99.5 (50.00-1.85)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	6.29 (at 1.85Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.175 , 0.199 0.182 , 0.193	Depositor DCC
R_{free} test set	1426 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	17.9	Xtriage
Anisotropy	0.057	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 53.0	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	2814	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.39% 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: MES, MPD

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	0.36	0/1263	0.86	2/1696 (0.1%)
1	B	0.38	0/1253	0.92	4/1685 (0.2%)
All	All	0.37	0/2516	0.89	6/3381 (0.2%)

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	780	PRO	N-CA-C	-7.11	102.02	110.70
1	B	781	PRO	N-CA-C	7.07	122.70	113.86
1	B	780	PRO	N-CA-C	-6.12	103.24	110.70
1	B	750	PHE	N-CA-C	-5.92	104.18	111.40
1	B	676	ASP	N-CA-C	-5.51	105.42	111.82
1	A	748	LYS	N-CA-C	5.36	117.54	111.11

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	1237	0	1193	26	0
1	B	1227	0	1171	31	0
2	A	16	0	28	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	8	0	14	2	0
3	B	24	0	25	0	0
4	A	130	0	0	1	0
4	B	172	0	0	1	0
All	All	2814	0	2431	59	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 12.

All (59) 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:697:ILE:HD11	1:A:778:ASN:HB2	1.31	1.12
1:A:686:ILE:HD12	1:A:774:LYS:HD3	1.44	0.95
1:A:729:GLU:HG2	1:A:730:PRO:HD2	1.51	0.92
2:B:4002:MPD:HM3	2:B:4002:MPD:O4	1.73	0.88
1:B:753:SER:HB3	2:B:4002:MPD:H12	1.56	0.88
2:A:4003:MPD:O4	2:A:4003:MPD:H13	1.83	0.79
1:B:720:LEU:O	1:B:724:ILE:HD13	1.88	0.72
1:A:729:GLU:HG2	1:A:730:PRO:CD	2.20	0.71
1:B:755:LEU:HD22	1:B:765:PHE:CZ	2.25	0.71
1:B:690:THR:C	1:B:691:ILE:HD12	2.20	0.66
1:B:750:PHE:CE1	1:B:754:ILE:HD11	2.32	0.64
1:B:786:ILE:HD12	1:B:786:ILE:N	2.13	0.63
1:A:724:ILE:HD12	1:A:762:LEU:HD22	1.79	0.63
1:B:820:ARG:HH11	1:B:820:ARG:HG3	1.63	0.62
1:B:783:VAL:HG12	1:B:786:ILE:HD13	1.84	0.59
1:B:755:LEU:HD22	1:B:765:PHE:HZ	1.65	0.59
1:A:823:GLU:O	1:A:824:LYS:HB2	2.04	0.58
1:B:823:GLU:O	1:B:824:LYS:CB	2.50	0.58
1:B:820:ARG:HG3	1:B:820:ARG:NH1	2.21	0.56
1:B:721:HIS:HA	1:B:724:ILE:CD1	2.36	0.55
1:A:820:ARG:HH11	1:A:820:ARG:HB2	1.73	0.53
1:A:697:ILE:HD13	1:A:772:MSE:HG3	1.91	0.53
1:B:750:PHE:O	1:B:754:ILE:HG12	2.09	0.52
1:A:697:ILE:HD13	1:A:772:MSE:CG	2.40	0.52
1:A:795:LEU:HD23	1:A:822:PHE:CE2	2.44	0.52
1:B:721:HIS:HA	1:B:724:ILE:HD11	1.91	0.51
1:A:772:MSE:HE3	1:A:773:PHE:CE1	2.45	0.51
1:B:783:VAL:CG1	1:B:786:ILE:HD13	2.41	0.51
1:B:772:MSE:HE3	1:B:773:PHE:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:765:PHE:HB3	1:A:766:PRO:HD3	1.93	0.51
1:A:686:ILE:HD12	1:A:774:LYS:CD	2.31	0.50
1:B:755:LEU:HD22	1:B:765:PHE:CE1	2.47	0.49
1:A:764:VAL:HG12	1:A:764:VAL:O	2.13	0.49
1:B:754:ILE:HD12	1:B:768:TYR:CZ	2.48	0.49
1:B:717:MSE:HE2	1:B:770:LEU:HG	1.94	0.49
1:A:736:LEU:HD21	1:A:762:LEU:HD21	1.95	0.48
1:B:736:LEU:CD2	1:B:762:LEU:HD21	2.43	0.48
1:A:697:ILE:HG12	1:A:697:ILE:O	2.14	0.47
1:B:724:ILE:HD11	1:B:766:PRO:HG3	1.97	0.47
1:B:785:GLY:C	1:B:786:ILE:HD12	2.39	0.46
1:A:720:LEU:HD11	1:A:765:PHE:CD2	2.51	0.46
1:A:802:GLN:HA	1:A:805:LYS:HZ3	1.80	0.46
1:A:720:LEU:O	1:A:724:ILE:HG12	2.16	0.45
1:A:674:ARG:HG3	1:A:674:ARG:HH21	1.81	0.45
1:A:697:ILE:HD11	1:A:778:ASN:CB	2.23	0.44
1:A:729:GLU:O	1:A:731:SER:N	2.51	0.44
1:A:817:MSE:O	1:A:820:ARG:HB3	2.17	0.44
1:B:786:ILE:N	1:B:786:ILE:CD1	2.80	0.44
1:A:691:ILE:HG21	1:A:773:PHE:HB3	1.99	0.44
1:A:729:GLU:C	1:A:731:SER:H	2.25	0.44
1:B:764:VAL:O	1:B:764:VAL:HG12	2.17	0.43
1:B:792:ASP:O	1:B:796:LYS:HG3	2.20	0.42
1:B:721:HIS:HA	1:B:724:ILE:HD13	2.02	0.42
1:B:754:ILE:O	1:B:758:LEU:HG	2.19	0.42
1:B:763:MSE:HE3	4:B:148:HOH:O	2.20	0.41
1:B:691:ILE:HD12	1:B:691:ILE:N	2.34	0.41
1:B:677:PHE:CD1	1:B:677:PHE:N	2.88	0.41
1:B:684:ASP:OD1	1:B:767:ARG:HB3	2.21	0.41
1:A:774:LYS:NZ	4:A:244:HOH:O	2.55	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	149/168 (89%)	147 (99%)	1 (1%)	1 (1%)	18	8
1	B	149/168 (89%)	147 (99%)	2 (1%)	0	100	100
All	All	298/336 (89%)	294 (99%)	3 (1%)	1 (0%)	36	25

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	730	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	142/151 (94%)	139 (98%)	3 (2%)	47	33
1	B	140/151 (93%)	135 (96%)	5 (4%)	31	16
All	All	282/302 (93%)	274 (97%)	8 (3%)	38	23

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	727	ASP
1	A	820	ARG
1	A	821	PHE
1	B	724	ILE
1	B	755	LEU
1	B	757	CYS
1	B	786	ILE
1	B	823	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	778	ASN
1	A	800	GLN
1	A	802	GLN
1	B	721	HIS
1	B	800	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

5 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	MPD	B	4002	-	7,7,7	1.39	1 (14%)	9,10,10	4.26	6 (66%)
3	MES	B	3440	-	12,12,12	1.94	4 (33%)	15,16,16	2.44	5 (33%)
3	MES	B	3441	-	12,12,12	1.22	1 (8%)	15,16,16	0.93	1 (6%)
2	MPD	A	4001	-	7,7,7	0.56	0	9,10,10	0.57	0
2	MPD	A	4003	-	7,7,7	1.14	1 (14%)	9,10,10	4.22	5 (55%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.

'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MPD	B	4002	-	-	1/5/5/5	-
3	MES	B	3440	-	-	0/6/14/14	0/1/1/1
3	MES	B	3441	-	-	0/6/14/14	0/1/1/1
2	MPD	A	4001	-	-	0/5/5/5	-
2	MPD	A	4003	-	-	0/5/5/5	-

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	3440	MES	C3-N4	3.59	1.56	1.46
3	B	3440	MES	C7-N4	-3.41	1.39	1.47
3	B	3440	MES	C5-N4	3.34	1.55	1.46
3	B	3441	MES	C8-S	3.29	1.82	1.77
2	B	4002	MPD	C3-C2	2.95	1.62	1.54
3	B	3440	MES	C8-S	2.55	1.81	1.77
2	A	4003	MPD	C3-C2	2.16	1.60	1.54

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	4002	MPD	O2-C2-C3	-7.86	79.86	109.27
2	A	4003	MPD	O2-C2-C3	-7.23	82.23	109.27
2	A	4003	MPD	CM-C2-C3	-6.41	82.53	110.20
2	B	4002	MPD	C1-C2-C3	-6.14	83.72	110.20
2	B	4002	MPD	O2-C2-C1	5.56	125.32	107.99
2	A	4003	MPD	O2-C2-C1	5.40	124.83	107.99
2	A	4003	MPD	C1-C2-C3	-4.70	89.93	110.20
3	B	3440	MES	C6-C5-N4	4.37	116.76	110.12
2	B	4002	MPD	CM-C2-C3	-4.36	91.40	110.20
3	B	3440	MES	C7-N4-C3	4.33	122.79	111.24
3	B	3440	MES	C2-C3-N4	4.30	116.65	110.12
2	A	4003	MPD	O2-C2-CM	3.69	119.47	107.99
3	B	3440	MES	C7-N4-C5	3.24	119.87	111.24
3	B	3440	MES	C5-N4-C3	-3.18	101.98	108.84
2	B	4002	MPD	CM-C2-C1	2.80	116.89	110.63
2	B	4002	MPD	O2-C2-CM	2.35	115.32	107.99
3	B	3441	MES	O1S-S-C8	2.16	110.00	106.73

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	4002	MPD	O2-C2-C3-C4

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	4002	MPD	2	0
2	A	4003	MPD	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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	146/168 (86%)	0.07	5 (3%) 48 52	11, 19, 53, 69	0
1	B	146/168 (86%)	-0.06	7 (4%) 35 39	9, 16, 37, 61	0
All	All	292/336 (86%)	0.01	12 (4%) 41 45	9, 17, 48, 69	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	822	PHE	4.6
1	B	676	ASP	4.6
1	B	821	PHE	3.7
1	A	728	TYR	3.0
1	A	821	PHE	2.9
1	A	822	PHE	2.8
1	B	824	LYS	2.8
1	A	730	PRO	2.7
1	B	675	SER	2.6
1	A	727	ASP	2.3
1	B	724	ILE	2.3
1	B	820	ARG	2.2

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 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($\text{\AA}^2$)	Q<0.9
2	MPD	B	4002	8/8	0.68	0.21	35,37,41,44	0
2	MPD	A	4003	8/8	0.73	0.18	41,42,43,44	0
2	MPD	A	4001	8/8	0.86	0.12	23,26,29,30	0
3	MES	B	3441	12/12	0.97	0.07	12,16,19,19	0
3	MES	B	3440	12/12	0.98	0.06	9,13,16,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.