



Full wwPDB X-ray Structure Validation Report

Feb 27, 2014 – 10:40 AM GMT

PDB ID : 1DMB
Title : REFINED 1.8 ANGSTROMS STRUCTURE REVEALS THE MECHANISM OF BINDING OF A CYCLIC SUGAR, BETA-CYCLODEXTRIN, TO THE MALTODEXTRIN BINDING PROTEIN
Authors : Sharff, A.J.; Quiocho, F.A.
Deposited on : 1993-06-10
Resolution : 1.80 Å(reported)

This is a full wwPDB 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/ValidationPDFNotes.html>

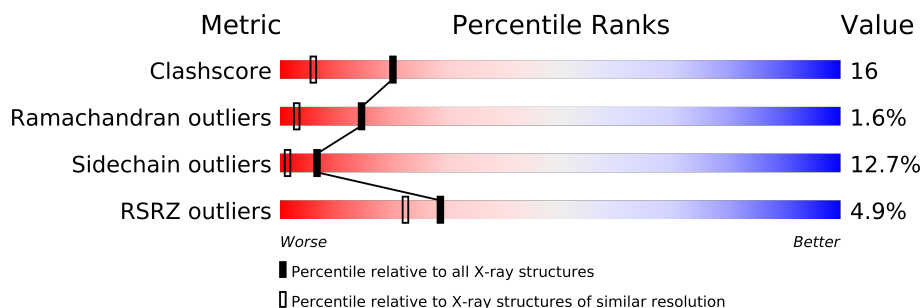
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 1.80 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))
Clashscore	79885	4461 (1.80-1.80)
Ramachandran outliers	78287	4404 (1.80-1.80)
Sidechain outliers	78261	4403 (1.80-1.80)
RSRZ outliers	66119	3515 (1.80-1.80)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	370	

2 Entry composition i

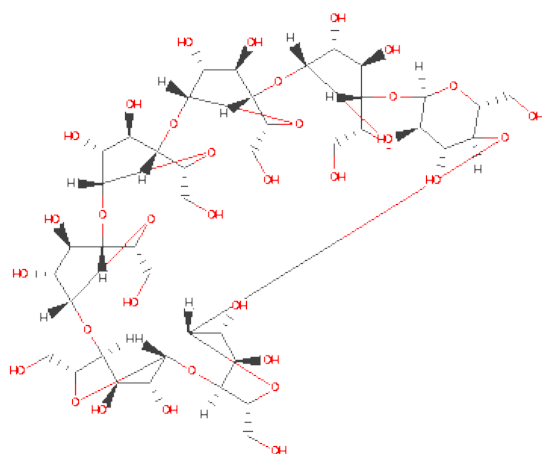
There are 3 unique types of molecules in this entry. The entry contains 3074 atoms, of which 0 are hydrogen and 0 are deuterium.

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 D-MALTODEXTRIN BINDING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	370	2862	1843	468	545	6	0	0	0

- Molecule 2 is SUGAR (BETA-CYCLODEXTRIN) (three-letter code: BCD) (formula: $C_{42}H_{70}O_{35}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	77	42	35	0	0

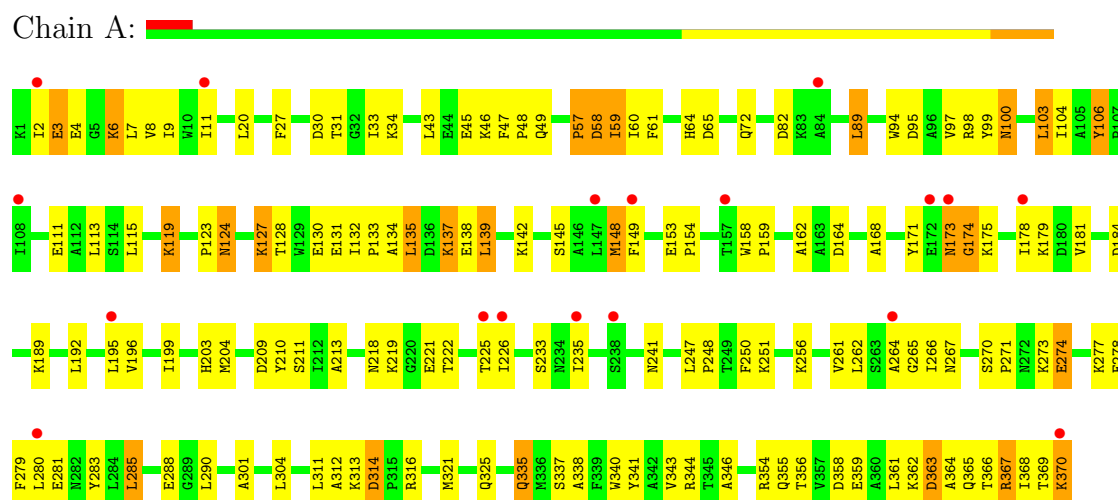
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	135	Total 135 O 135	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: D-MALTODEXTRIN BINDING PROTEIN



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	38.86Å 44.32Å 58.31Å 101.50° 99.30° 102.20°	Depositor
Resolution (Å)	10.00 – 1.80 21.95 – 1.73	Depositor EDS
% Data completeness (in resolution range)	(Not available) (10.00-1.80) 86.4 (21.95-1.73)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.73 (at 1.72Å)	Xtriage
Refinement program	PROLSQ, X-PLOR	Depositor
R, R_{free}	0.210 , (Not available) 0.235 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	22.8	Xtriage
Anisotropy	0.415	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 83.0	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.35$	Xtriage
Outliers	0 of 43211 reflections	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3074	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.32% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: BCD

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	0.89	0/2931	1.48	26/3979 (0.7%)

There are no bond length outliers.

All (26) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	316	ARG	NE-CZ-NH1	11.91	126.26	120.30
1	A	58	ASP	CB-CG-OD1	-9.40	109.84	118.30
1	A	314	ASP	CB-CG-OD2	7.72	125.25	118.30
1	A	316	ARG	NE-CZ-NH2	-7.23	116.68	120.30
1	A	278	GLU	CG-CD-OE1	7.00	132.29	118.30
1	A	354	ARG	NE-CZ-NH2	6.99	123.80	120.30
1	A	344	ARG	CD-NE-CZ	6.54	132.76	123.60
1	A	89	LEU	CA-CB-CG	6.46	130.15	115.30
1	A	363	ASP	CB-CG-OD2	-6.42	112.53	118.30
1	A	344	ARG	NE-CZ-NH1	6.41	123.51	120.30
1	A	106	TYR	CB-CG-CD2	-6.37	117.18	121.00
1	A	363	ASP	CB-CG-OD1	5.95	123.66	118.30
1	A	82	ASP	CB-CG-OD1	5.93	123.64	118.30
1	A	164	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	A	285	LEU	CA-CB-CG	5.84	128.73	115.30
1	A	98	ARG	NE-CZ-NH1	-5.82	117.39	120.30
1	A	367	ARG	NE-CZ-NH1	5.69	123.15	120.30
1	A	65	ASP	CB-CA-C	5.52	121.44	110.40
1	A	314	ASP	CB-CG-OD1	-5.29	113.53	118.30
1	A	210	TYR	CB-CG-CD2	-5.29	117.83	121.00
1	A	278	GLU	CG-CD-OE2	-5.27	107.76	118.30
1	A	58	ASP	CB-CG-OD2	5.21	122.98	118.30
1	A	149	PHE	CA-CB-CG	5.19	126.35	113.90
1	A	65	ASP	CB-CG-OD1	5.05	122.84	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	225	THR	CA-CB-CG2	5.03	119.44	112.40
1	A	209	ASP	CB-CG-OD2	5.01	122.81	118.30

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2862	0	2828	93	0
2	A	77	0	69	1	0
3	A	135	0	0	4	0
All	All	3074	0	2897	93	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 16.

All (93) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:59:ILE:HG21	3:A:469:HOH:O	1.73	0.88
1:A:321:MET:HG3	1:A:325:GLN:HE21	1.47	0.78
1:A:192:LEU:O	1:A:196:VAL:HG23	1.86	0.76
1:A:64:HIS:CD2	1:A:261:VAL:H	2.05	0.75
1:A:6:LYS:NZ	1:A:7:LEU:H	1.89	0.70
1:A:355:GLN:HG2	1:A:359:GLU:HB2	1.74	0.68
1:A:111:GLU:OE1	3:A:427:HOH:O	2.13	0.67
1:A:59:ILE:CD1	1:A:264:ALA:HB1	2.25	0.65
1:A:127:LYS:HA	1:A:127:LYS:HE3	1.78	0.65
1:A:6:LYS:NZ	1:A:34:LYS:O	2.30	0.65
1:A:123:PRO:O	1:A:124:ASN:ND2	2.29	0.65
1:A:355:GLN:HG2	1:A:359:GLU:CB	2.29	0.63
1:A:27:PHE:HA	1:A:283:TYR:CE2	2.34	0.63
1:A:321:MET:CG	1:A:325:GLN:HE21	2.13	0.62
1:A:94:TRP:CE3	1:A:103:LEU:HD21	2.35	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:132:ILE:N	1:A:133:PRO:CD	2.64	0.60
1:A:153:GLU:OE2	1:A:154:PRO:HD2	2.01	0.60
1:A:6:LYS:HE2	1:A:34:LYS:HB2	1.84	0.60
1:A:6:LYS:HZ2	1:A:7:LEU:H	1.51	0.58
1:A:31:THR:HG22	1:A:33:ILE:HG12	1.86	0.58
1:A:321:MET:HG3	1:A:325:GLN:NE2	2.19	0.57
1:A:64:HIS:HD2	1:A:261:VAL:H	1.51	0.57
1:A:148:MET:HG2	1:A:213:ALA:HA	1.86	0.57
1:A:119:LYS:HB2	1:A:241:ASN:O	2.05	0.56
1:A:2:ILE:CB	1:A:271:PRO:HG3	2.36	0.56
1:A:59:ILE:HD11	1:A:61:PHE:CE1	2.41	0.55
1:A:61:PHE:CE2	1:A:264:ALA:HB2	2.41	0.55
1:A:99:TYR:CD1	1:A:100:ASN:HB2	2.41	0.55
1:A:154:PRO:HB3	1:A:343:VAL:HG12	1.89	0.55
1:A:133:PRO:HB3	1:A:203:HIS:CE1	2.42	0.55
1:A:335:GLN:O	1:A:338:ALA:HB3	2.08	0.54
1:A:153:GLU:HG3	2:A:371:BCD:O63	2.08	0.53
1:A:362:LYS:O	1:A:366:THR:HG23	2.09	0.53
1:A:355:GLN:HE21	1:A:359:GLU:HB3	1.73	0.52
1:A:127:LYS:CE	1:A:127:LYS:HA	2.36	0.52
1:A:148:MET:HB3	1:A:222:THR:HG21	1.92	0.52
1:A:270:SER:O	1:A:273:LYS:NZ	2.41	0.52
1:A:218:ASN:HD21	1:A:235:ILE:HG12	1.76	0.51
1:A:11:ILE:HD12	1:A:20:LEU:HD22	1.92	0.51
1:A:6:LYS:HZ2	1:A:7:LEU:N	2.09	0.50
1:A:132:ILE:N	1:A:133:PRO:HD3	2.26	0.50
1:A:9:ILE:HG12	1:A:59:ILE:HG12	1.93	0.50
1:A:274:GLU:HB2	3:A:419:HOH:O	2.12	0.50
1:A:219:LYS:HE3	1:A:221:GLU:OE2	2.12	0.49
1:A:355:GLN:NE2	1:A:363:ASP:OD2	2.44	0.49
1:A:184:ASP:OD2	1:A:362:LYS:HA	2.11	0.49
1:A:189:LYS:HG3	1:A:361:LEU:HD12	1.94	0.49
1:A:171:TYR:CZ	1:A:174:GLY:HA2	2.48	0.48
1:A:290:LEU:HD12	1:A:304:LEU:HD23	1.95	0.48
1:A:162:ALA:HB1	1:A:256:LYS:HE3	1.94	0.48
1:A:277:LYS:O	1:A:281:GLU:HG3	2.14	0.48
1:A:11:ILE:HG13	1:A:61:PHE:HB2	1.96	0.48
1:A:100:ASN:HA	1:A:175:LYS:HD3	1.97	0.47
1:A:370:LYS:HE2	1:A:370:LYS:HA	1.95	0.47
1:A:279:PHE:O	1:A:283:TYR:HB2	2.14	0.47
1:A:321:MET:O	1:A:325:GLN:HG3	2.14	0.47
1:A:134:ALA:O	1:A:137:LYS:HE2	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:128:THR:CG2	1:A:130:GLU:HB2	2.46	0.46
1:A:301:ALA:HB1	1:A:321:MET:CE	2.46	0.46
1:A:2:ILE:O	1:A:3:GLU:C	2.54	0.46
1:A:128:THR:HB	1:A:131:GLU:OE1	2.16	0.45
1:A:58:ASP:O	1:A:266:ILE:HA	2.17	0.45
1:A:250:PHE:O	1:A:251:LYS:HB2	2.16	0.45
1:A:57:PRO:O	1:A:267:ASN:HB2	2.17	0.45
1:A:115:LEU:HB2	1:A:247:LEU:HD23	1.99	0.45
1:A:11:ILE:HD12	1:A:20:LEU:CD2	2.47	0.45
1:A:148:MET:CB	1:A:222:THR:HG21	2.47	0.44
1:A:311:LEU:C	1:A:313:LYS:H	2.21	0.44
1:A:359:GLU:HG2	3:A:441:HOH:O	2.17	0.44
1:A:363:ASP:O	1:A:367:ARG:HG3	2.17	0.44
1:A:132:ILE:H	1:A:133:PRO:HD3	1.83	0.44
1:A:356:THR:H	1:A:359:GLU:CD	2.21	0.43
1:A:346:ALA:HB2	1:A:364:ALA:HB2	2.00	0.43
1:A:47:PHE:N	1:A:48:PRO:HD2	2.33	0.43
1:A:314:ASP:OD1	1:A:314:ASP:C	2.57	0.43
1:A:99:TYR:HE1	1:A:100:ASN:HD22	1.66	0.42
1:A:158:TRP:N	1:A:159:PRO:HD2	2.33	0.42
1:A:168:ALA:O	1:A:181:VAL:HA	2.19	0.42
1:A:365:GLN:O	1:A:365:GLN:HG3	2.18	0.42
1:A:59:ILE:HD11	1:A:264:ALA:HB1	2.01	0.42
1:A:113:LEU:HD13	1:A:226:ILE:HG22	2.01	0.42
1:A:195:LEU:O	1:A:199:ILE:HG13	2.20	0.41
1:A:153:GLU:HA	1:A:154:PRO:HD2	1.89	0.41
1:A:181:VAL:CG2	1:A:369:THR:HG23	2.50	0.41
1:A:135:LEU:O	1:A:139:LEU:HB2	2.20	0.41
1:A:59:ILE:HA	1:A:265:GLY:O	2.20	0.41
1:A:46:LYS:O	1:A:49:GLN:HG2	2.20	0.41
1:A:199:ILE:HA	1:A:204:MET:O	2.21	0.41
1:A:106:TYR:CD2	1:A:280:LEU:HD13	2.56	0.41
1:A:247:LEU:HA	1:A:248:PRO:HD3	1.98	0.40
1:A:270:SER:HA	1:A:271:PRO:HD3	1.80	0.40
1:A:97:VAL:O	1:A:104:ILE:HG13	2.21	0.40
1:A:364:ALA:O	1:A:368:ILE:HG13	2.20	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	368/370 (100%)	339 (92%)	23 (6%)	6 (2%)	14 3

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3	GLU
1	A	4	GLU
1	A	173	ASN
1	A	312	ALA
1	A	340	TRP
1	A	174	GLY

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	292/297 (98%)	255 (87%)	37 (13%)	6 1

All (37) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	LYS
1	A	8	VAL
1	A	30	ASP
1	A	43	LEU
1	A	45	GLU
1	A	57	PRO
1	A	59	ILE
1	A	60	ILE

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Mol	Chain	Res	Type
1	A	72	GLN
1	A	89	LEU
1	A	95	ASP
1	A	100	ASN
1	A	103	LEU
1	A	119	LYS
1	A	124	ASN
1	A	127	LYS
1	A	135	LEU
1	A	137	LYS
1	A	138	GLU
1	A	139	LEU
1	A	142	LYS
1	A	145	SER
1	A	148	MET
1	A	173	ASN
1	A	178	ILE
1	A	179	LYS
1	A	211	SER
1	A	233	SER
1	A	262	LEU
1	A	274	GLU
1	A	285	LEU
1	A	288	GLU
1	A	335	GLN
1	A	337	SER
1	A	341	TYR
1	A	358	ASP
1	A	370	LYS

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

Mol	Chain	Res	Type
1	A	64	HIS
1	A	201	ASN
1	A	203	HIS
1	A	218	ASN
1	A	325	GLN
1	A	349	ASN
1	A	355	GLN

5.3.3 RNA ⓘ

There are no RNA chains 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 ⓘ

1 ligand 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$
2	BCD	A	371	-	84,84,84	1.22	3 (3%)	126,126,126	1.23	6 (4%)

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	BCD	A	371	-	-	0/42/182/182	0/0/8/8

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	371	BCD	O52-C52	-8.51	1.23	1.44
2	A	371	BCD	O66-C66	-3.18	1.28	1.42
2	A	371	BCD	C36-C46	-2.17	1.46	1.52

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	371	BCD	O52-C52-C62	5.33	119.44	106.34
2	A	371	BCD	C12-O52-C52	4.79	123.04	113.73
2	A	371	BCD	O52-C52-C42	4.30	118.68	109.70
2	A	371	BCD	O42-C42-C52	3.10	117.38	109.33
2	A	371	BCD	C26-C36-C46	2.61	115.28	109.61
2	A	371	BCD	O62-C62-C52	-2.57	102.51	111.36

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

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	370/370 (100%)	0.30	18 (4%)	28 22	8, 26, 43, 59	0

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	2	ILE	6.2
1	A	149	PHE	3.6
1	A	280	LEU	3.5
1	A	226	ILE	3.5
1	A	178	ILE	3.2
1	A	238	SER	3.0
1	A	370	LYS	2.8
1	A	173	ASN	2.7
1	A	11	ILE	2.5
1	A	108	ILE	2.5
1	A	235	ILE	2.4
1	A	225	THR	2.4
1	A	172	GLU	2.3
1	A	264	ALA	2.3
1	A	84	ALA	2.3
1	A	157	THR	2.2
1	A	147	LEU	2.2
1	A	195	LEU	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	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	BCD	A	371	77/77	0.13	-0.24	29,49,54,56	0

6.5 Other polymers

There are no such residues in this entry.