



Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 04:22 am BST

PDB ID : 4BD7
Title : Bax domain swapped dimer induced by octylmaltoside
Authors : Czabotar, P.E.; Westphal, D.; Adams, J.M.; Colman, P.M.
Deposited on : 2012-10-05
Resolution : 2.80 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.11
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) : 2.11

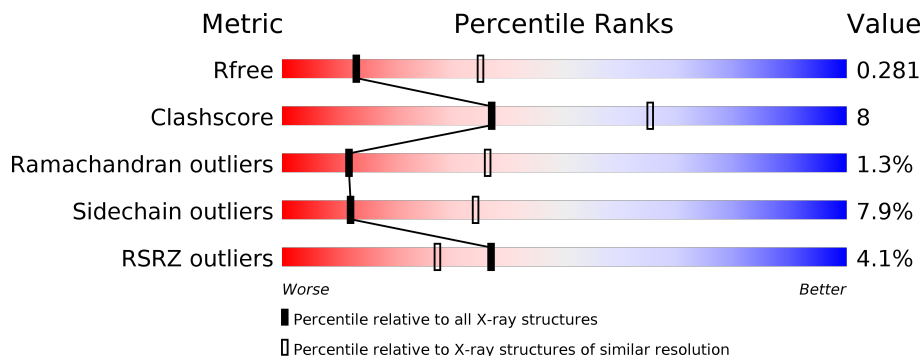
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.80 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))
R_{free}	130704	3140 (2.80-2.80)
Clashscore	141614	3569 (2.80-2.80)
Ramachandran outliers	138981	3498 (2.80-2.80)
Sidechain outliers	138945	3500 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)

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 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	174	<div style="display: flex; align-items: center;"> <div style="width: 5%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 68%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 14%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 17%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">% 68% 14% •• 17%</p>
1	B	174	<div style="display: flex; align-items: center;"> <div style="width: 5%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 63%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 23%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 13%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">% 63% 23% • 13%</p>
1	C	174	<div style="display: flex; align-items: center;"> <div style="width: 6%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 55%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 18%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 24%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">6% 55% 18% • 24%</p>
1	D	174	<div style="display: flex; align-items: center;"> <div style="width: 5%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 59%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 15%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 24%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">5% 59% 15% • 24%</p>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4227 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 APOPTOSIS REGULATOR BAX.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	144	1136	727	193	211	5	0	0	0
1	B	152	1180	760	197	218	5	0	0	0
1	C	132	969	633	156	175	5	0	0	0
1	D	132	924	608	153	160	3	0	0	0

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	172	GLY	-	expression tag	UNP Q07812
A	173	SER	-	expression tag	UNP Q07812
A	174	SER	-	expression tag	UNP Q07812
A	62	SER	CYS	engineered mutation	UNP Q07812
A	126	SER	CYS	engineered mutation	UNP Q07812
B	172	GLY	-	expression tag	UNP Q07812
B	173	SER	-	expression tag	UNP Q07812
B	174	SER	-	expression tag	UNP Q07812
B	62	SER	CYS	engineered mutation	UNP Q07812
B	126	SER	CYS	engineered mutation	UNP Q07812
C	172	GLY	-	expression tag	UNP Q07812
C	173	SER	-	expression tag	UNP Q07812
C	174	SER	-	expression tag	UNP Q07812
C	62	SER	CYS	engineered mutation	UNP Q07812
C	126	SER	CYS	engineered mutation	UNP Q07812
D	172	GLY	-	expression tag	UNP Q07812
D	173	SER	-	expression tag	UNP Q07812
D	174	SER	-	expression tag	UNP Q07812
D	62	SER	CYS	engineered mutation	UNP Q07812
D	126	SER	CYS	engineered mutation	UNP Q07812

- Molecule 2 is PRASEODYMIUM ION (three-letter code: PR) (formula: Pr).

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

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total 1	Cl 1	0	0

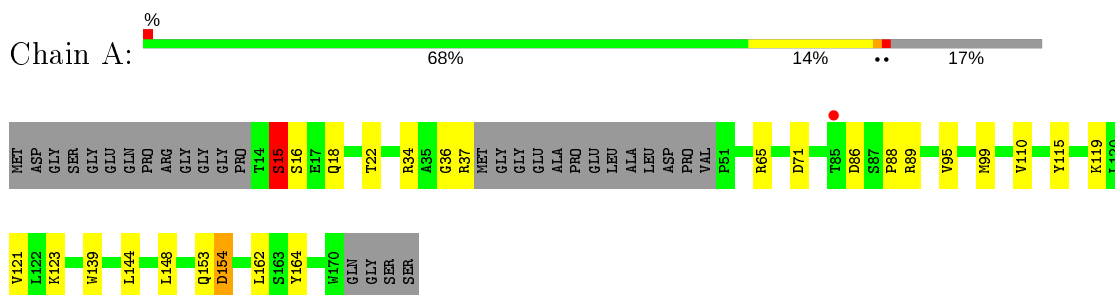
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	11	Total 11	O 11	0	0
4	B	3	Total 3	O 3	0	0
4	D	1	Total 1	O 1	0	0

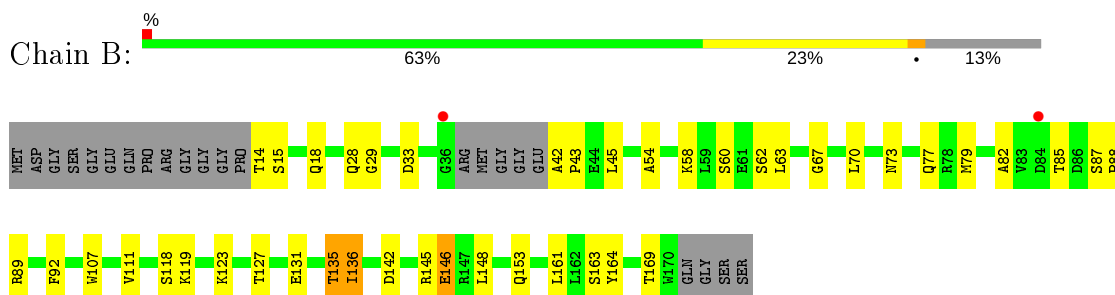
3 Residue-property plots [i](#)

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.

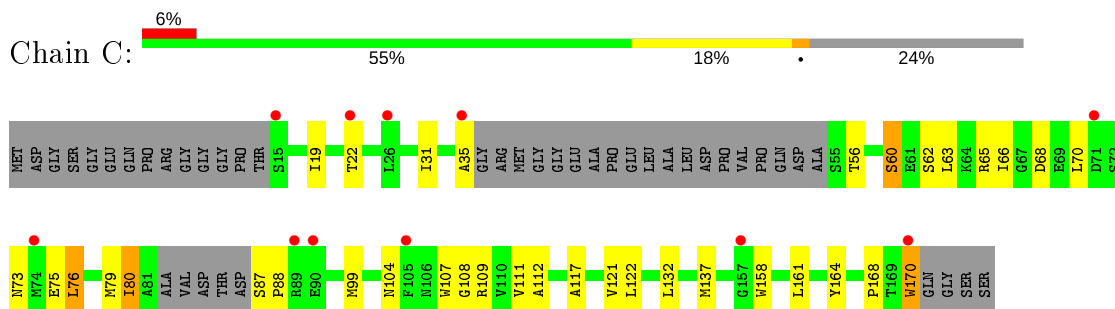
- Molecule 1: APOPTOSIS REGULATOR BAX



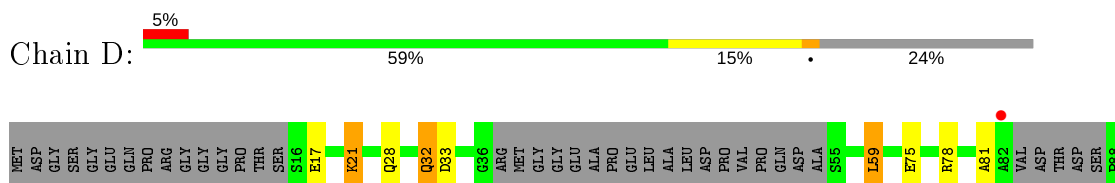
- Molecule 1: APOPTOSIS REGULATOR BAX

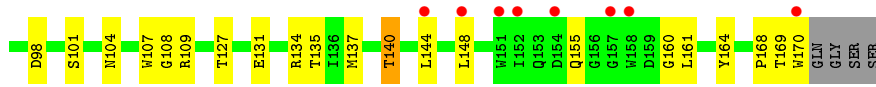


- Molecule 1: APOPTOSIS REGULATOR BAX



- Molecule 1: APOPTOSIS REGULATOR BAX





4 Data and refinement statistics i

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	142.24Å 142.24Å 86.78Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	41.03 – 2.80 41.03 – 2.80	Depositor EDS
% Data completeness (in resolution range)	99.7 (41.03-2.80) 99.7 (41.03-2.80)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.86 (at 2.81Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE: 1.8.1_1168)	Depositor
R, R_{free}	0.201 , 0.274 0.210 , 0.281	Depositor DCC
R_{free} test set	806 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	75.1	Xtriage
Anisotropy	0.089	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 79.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.024 for -2/3*h-1/3*k-4/3*l,-1/3*h-2/3*k+ 4/3*l,-1/3*h+1/3*k+1/3*l 0.017 for -h,1/3*h-1/3*k-4/3*l,-1/3*h-2/3*k +1/3*l 0.018 for -1/3*h+1/3*k+4/3*l,-k,2/3*h+1/ 3*k+1/3*l 0.022 for -h,2/3*h+1/3*k+4/3*l,1/3*h+2/3 *k-1/3*l 0.028 for -1/3*h-2/3*k+4/3*l,-2/3*h-1/3*k- 4/3*l,1/3*h-1/3*k-1/3*l 0.017 for 1/3*h+2/3*k-4/3*l,-k,-2/3*h-1/3* k-1/3*l 0.033 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4227	wwPDB-VP
Average B, all atoms (Å ²)	83.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.26% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

² Theoretical 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 [i](#)

5.1 Standard geometry [i](#)

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

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	0.50	0/1159	0.64	0/1565
1	B	0.52	0/1205	0.67	1/1633 (0.1%)
1	C	0.38	0/990	0.58	0/1349
1	D	0.40	0/945	0.56	0/1290
All	All	0.46	0/4299	0.62	1/5837 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	161	LEU	CA-CB-CG	5.12	127.08	115.30

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	1136	0	1116	15	0
1	B	1180	0	1163	23	0
1	C	969	0	887	23	0
1	D	924	0	817	25	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	1	0	0	0	0
4	A	11	0	0	0	0
4	B	3	0	0	0	0
4	D	1	0	0	0	0
All	All	4227	0	3983	64	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 8.

All (64) 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:65:ARG:NH2	1:B:164:TYR:O	2.02	0.92
1:C:170:TRP:HA	1:D:109:ARG:HH21	1.48	0.79
1:C:99:MET:HE1	1:C:112:ALA:HB3	1.69	0.72
1:C:65:ARG:NH1	1:D:164:TYR:O	2.20	0.71
1:B:58:LYS:HG2	1:D:134:ARG:HH22	1.58	0.68
1:B:82:ALA:O	1:B:123:LYS:NZ	2.20	0.67
1:A:110:VAL:HG22	1:B:148:LEU:HD13	1.77	0.67
1:D:78:ARG:HA	1:D:81:ALA:HB3	1.76	0.65
1:B:131:GLU:O	1:B:135:THR:HG23	1.95	0.65
1:A:153:GLN:HG2	1:B:15:SER:HB3	1.79	0.64
1:C:76:LEU:HD21	1:D:170:TRP:CZ2	2.38	0.59
1:C:73:ASN:HB3	1:C:76:LEU:HB2	1.85	0.58
1:C:62:SER:O	1:C:66:ILE:HG13	2.03	0.58
1:D:131:GLU:O	1:D:135:THR:HG23	2.04	0.58
1:D:28:GLN:O	1:D:32:GLN:HG3	2.05	0.57
1:B:28:GLN:HG3	1:B:45:LEU:HD12	1.87	0.56
1:C:117:ALA:HB2	1:D:140:THR:HG21	1.87	0.56
1:B:54:ALA:HA	1:D:127:THR:HG22	1.86	0.56
1:D:144:LEU:HD12	1:D:148:LEU:HD12	1.89	0.54
1:A:71:ASP:OD1	1:A:115:TYR:OH	2.20	0.54
1:C:56:THR:O	1:C:60:SER:OG	2.27	0.52
1:C:35:ALA:HB2	1:C:122:LEU:HD21	1.91	0.52
1:C:31:ILE:HD13	1:C:121:VAL:HG21	1.92	0.52
1:A:144:LEU:HD22	1:A:148:LEU:HB2	1.92	0.52
1:B:142:ASP:O	1:B:146:GLU:HG2	2.11	0.51
1:C:75:GLU:O	1:C:79:MET:HG2	2.10	0.51
1:D:98:ASP:HA	1:D:101:SER:OG	2.11	0.50
1:C:158:TRP:O	1:C:161:LEU:HB3	2.12	0.50
1:B:142:ASP:OD1	1:B:145:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:58:LYS:HG2	1:D:134:ARG:NH2	2.26	0.49
1:D:104:ASN:O	1:D:109:ARG:NH1	2.46	0.49
1:A:119:LYS:O	1:A:123:LYS:HG2	2.13	0.49
1:B:63:LEU:HD23	1:B:111:VAL:HG22	1.96	0.47
1:C:108:GLY:HA3	1:D:168:PRO:HG3	1.95	0.46
1:C:117:ALA:CB	1:D:140:THR:HG21	2.45	0.46
1:C:104:ASN:C	1:C:109:ARG:HH22	2.20	0.46
1:B:73:ASN:O	1:B:77:GLN:HG2	2.16	0.45
1:C:161:LEU:HB2	1:D:107:TRP:CE3	2.53	0.44
1:C:161:LEU:HB2	1:D:107:TRP:CD2	2.52	0.44
1:A:164:TYR:CD2	1:B:107:TRP:HB2	2.53	0.44
1:B:29:GLY:O	1:B:33:ASP:HB2	2.17	0.44
1:A:15:SER:O	1:B:153:GLN:NE2	2.29	0.44
1:C:168:PRO:HB3	1:D:108:GLY:HA3	1.99	0.44
1:A:154:ASP:OD1	1:A:154:ASP:N	2.51	0.43
1:B:146:GLU:H	1:B:146:GLU:HG2	1.65	0.43
1:B:87:SER:O	1:B:89:ARG:N	2.52	0.43
1:C:80:ILE:HD13	1:C:80:ILE:HA	1.70	0.43
1:D:155:GLN:O	1:D:160:GLY:HA3	2.19	0.43
1:D:137:MET:HA	1:D:140:THR:OG1	2.19	0.43
1:D:17:GLU:O	1:D:21:LYS:HD3	2.18	0.43
1:C:63:LEU:HD12	1:C:111:VAL:HG22	2.01	0.42
1:C:107:TRP:CE2	1:D:161:LEU:HA	2.54	0.42
1:C:164:TYR:CD1	1:D:107:TRP:HB2	2.54	0.42
1:A:121:VAL:HG23	1:B:136:ILE:HG21	2.02	0.42
1:B:67:GLY:HA2	1:B:70:LEU:HD12	2.01	0.42
1:B:42:ALA:N	1:B:43:PRO:HD2	2.34	0.41
1:A:34:ARG:HD3	1:A:34:ARG:HA	1.94	0.41
1:B:14:THR:HA	1:B:18:GLN:OE1	2.20	0.41
1:A:36:GLY:O	1:A:37:ARG:HB3	2.21	0.41
1:A:139:TRP:HB3	1:B:92:PHE:CE2	2.56	0.41
1:D:59:LEU:H	1:D:59:LEU:HD23	1.85	0.41
1:A:18:GLN:O	1:A:22:THR:HG23	2.20	0.40
1:A:95:VAL:O	1:A:99:MET:HG3	2.21	0.40
1:C:137:MET:HE1	1:D:28:GLN:HB2	2.03	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	140/174 (80%)	129 (92%)	9 (6%)	2 (1%)	11	34
1	B	148/174 (85%)	134 (90%)	13 (9%)	1 (1%)	22	53
1	C	126/174 (72%)	117 (93%)	7 (6%)	2 (2%)	9	31
1	D	126/174 (72%)	118 (94%)	6 (5%)	2 (2%)	9	31
All	All	540/696 (78%)	498 (92%)	35 (6%)	7 (1%)	12	36

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	88	PRO
1	C	88	PRO
1	A	15	SER
1	D	32	GLN
1	D	75	GLU
1	C	19	ILE
1	B	88	PRO

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	119/142 (84%)	113 (95%)	6 (5%)	24	56
1	B	123/142 (87%)	111 (90%)	12 (10%)	8	24
1	C	90/142 (63%)	81 (90%)	9 (10%)	7	22

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	75/142 (53%)	70 (93%)	5 (7%)	16	43
All	All	407/568 (72%)	375 (92%)	32 (8%)	12	34

All (32) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	15	SER
1	A	16	SER
1	A	86	ASP
1	A	89	ARG
1	A	154	ASP
1	A	162	LEU
1	B	60	SER
1	B	62	SER
1	B	79	MET
1	B	85	THR
1	B	118	SER
1	B	119	LYS
1	B	127	THR
1	B	135	THR
1	B	136	ILE
1	B	146	GLU
1	B	163	SER
1	B	169	THR
1	C	22	THR
1	C	60	SER
1	C	68	ASP
1	C	70	LEU
1	C	76	LEU
1	C	80	ILE
1	C	87	SER
1	C	132	LEU
1	C	170	TRP
1	D	21	LYS
1	D	33	ASP
1	D	59	LEU
1	D	140	THR
1	D	169	THR

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

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 3 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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	144/174 (82%)	-0.09	1 (0%) 87 84	35, 66, 118, 139	0
1	B	152/174 (87%)	-0.02	2 (1%) 77 72	40, 62, 105, 139	0
1	C	132/174 (75%)	0.34	11 (8%) 11 6	55, 107, 150, 178	0
1	D	132/174 (75%)	0.11	9 (6%) 17 10	52, 97, 139, 152	0
All	All	560/696 (80%)	0.08	23 (4%) 37 27	35, 80, 139, 178	0

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	82	ALA	4.9
1	D	158	TRP	4.3
1	C	74	MET	4.2
1	C	26	LEU	4.0
1	D	152	ILE	4.0
1	D	154	ASP	3.4
1	D	151	TRP	3.4
1	C	157	GLY	3.2
1	D	157	GLY	2.8
1	C	89	ARG	2.7
1	C	170	TRP	2.7
1	A	85	THR	2.6
1	C	35	ALA	2.6
1	D	148	LEU	2.6
1	C	71	ASP	2.6
1	C	90	GLU	2.4
1	B	36	GLY	2.3
1	C	15	SER	2.3
1	B	84	ASP	2.2
1	D	144	LEU	2.2
1	D	170	TRP	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	105	PHE	2.1
1	C	22	THR	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. 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(\AA^2)	Q < 0.9
3	CL	A	1172	1/1	0.95	0.43	89,89,89,89	1
2	PR	B	1171	1/1	0.98	0.19	102,102,102,102	0
2	PR	A	1171	1/1	0.99	0.24	71,71,71,71	0

6.5 Other polymers [i](#)

There are no such residues in this entry.