



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 27, 2023 – 03:04 PM EDT

PDB ID : 3IO8
Title : BimL12F in complex with Bcl-xL
Authors : Colman, P.M.; Lee, E.F.; Fairlie, W.D.; Smith, B.J.; Czabotar, P.E.; Yang, H.; Sleebs, B.E.; Lessene, G.
Deposited on : 2009-08-14
Resolution : 2.30 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 : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.35
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) : 2.35

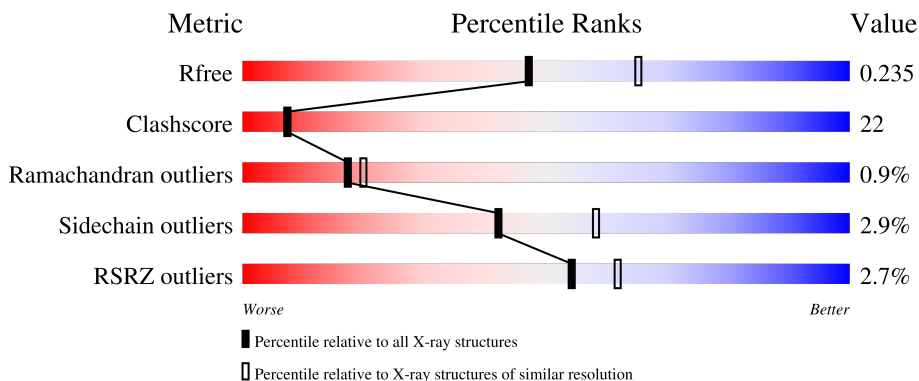
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	158	 4% 52% 37% 10%
1	C	158	 % 58% 34% 8%
2	B	26	 50% 35% 12%
2	D	26	 4% 27% 46% 27%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2718 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 Bcl-2-like protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	142	1146	734	193	214	5	1	0	0
1	C	146	1172	748	198	221	5	0	0	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-4	GLY	-	expression tag	UNP Q07817
A	-3	PRO	-	expression tag	UNP Q07817
A	-2	LEU	-	expression tag	UNP Q07817
A	-1	GLY	-	expression tag	UNP Q07817
A	0	SER	-	expression tag	UNP Q07817
C	-4	GLY	-	expression tag	UNP Q07817
C	-3	PRO	-	expression tag	UNP Q07817
C	-2	LEU	-	expression tag	UNP Q07817
C	-1	GLY	-	expression tag	UNP Q07817
C	0	SER	-	expression tag	UNP Q07817

- Molecule 2 is a protein called Bcl-2-like protein 11.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	B	23	202	131	38	33	0	0	0
2	D	19	166	106	31	29	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	62	PHE	LEU	engineered mutation	UNP O43521
D	62	PHE	LEU	engineered mutation	UNP O43521

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total 1	Zn 1	0	0
3	C	2	Total 2	Zn 2	0	0

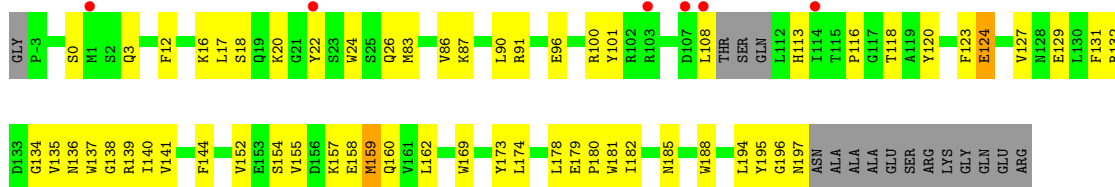
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	11	Total 11	O 11	0	0
4	B	7	Total 7	O 7	0	0
4	C	10	Total 10	O 10	0	0
4	D	1	Total 1	O 1	0	0

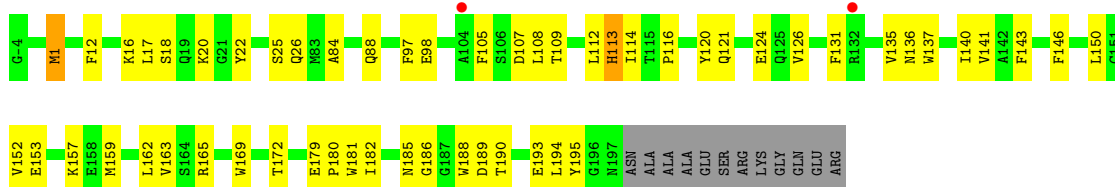
3 Residue-property plots [i](#)

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: Bcl-2-like protein 1



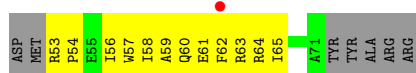
- Molecule 1: Bcl-2-like protein 1



- Molecule 2: Bcl-2-like protein 11



- Molecule 2: Bcl-2-like protein 11



4 Data and refinement statistics

Property	Value	Source
Space group	P 62	Depositor
Cell constants a, b, c, α , β , γ	65.72Å 65.72Å 170.09Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	47.30 – 2.30 47.30 – 2.30	Depositor EDS
% Data completeness (in resolution range)	99.8 (47.30-2.30) 99.8 (47.30-2.30)	Depositor EDS
R_{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.03 (at 2.29Å)	Xtrriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, R_{free}	0.185 , 0.231 0.190 , 0.235	Depositor DCC
R_{free} test set	946 reflections (5.13%)	wwPDB-VP
Wilson B-factor (Å ²)	46.4	Xtrriage
Anisotropy	0.353	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 53.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtrriage
Estimated twinning fraction	0.399 for h,-h-k,-l	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2718	wwPDB-VP
Average B, all atoms (Å ²)	55.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.50% 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 [i](#)

5.1 Standard geometry [i](#)

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

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	0.31	0/1174	0.42	0/1587
1	C	0.26	0/1201	0.44	0/1626
2	B	0.35	0/208	0.43	0/279
2	D	0.27	0/170	0.38	0/228
All	All	0.29	0/2753	0.43	0/3720

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 [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	1146	0	1094	53	0
1	C	1172	0	1118	53	0
2	B	202	0	188	14	0
2	D	166	0	155	15	0
3	A	1	0	0	0	0
3	C	2	0	0	0	0
4	A	11	0	0	2	0
4	B	7	0	0	0	0
4	C	10	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	1	0	0	0	0
All	All	2718	0	2555	117	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 22.

All (117) 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:C:116:PRO:HA	1:C:162:LEU:HD21	1.58	0.85
2:D:56:ILE:HD12	2:D:56:ILE:H	1.45	0.80
1:A:157:LYS:HB2	1:A:159:MET:HG3	1.66	0.78
1:C:112:LEU:HD21	2:D:58:ILE:HG21	1.67	0.76
1:C:137:TRP:CH2	1:C:182:ILE:HG13	2.25	0.72
1:C:137:TRP:O	1:C:141:VAL:HG23	1.90	0.72
1:A:91:ARG:HH12	1:C:88:GLN:HE22	1.36	0.71
1:A:20:LYS:HG3	1:C:152:VAL:HG11	1.74	0.70
1:C:162:LEU:HA	1:C:165:ARG:HD2	1.74	0.69
4:A:214:HOH:O	1:C:1:MET:HE1	1.94	0.67
1:A:174:LEU:HA	1:A:178:LEU:HB2	1.77	0.67
1:A:196:GLY:O	1:A:197:ASN:HB2	1.96	0.65
1:A:116:PRO:HA	1:A:162:LEU:HD21	1.77	0.65
1:A:124:GLU:O	1:A:124:GLU:HG2	1.97	0.64
1:C:179:GLU:HB3	1:C:180:PRO:HD3	1.80	0.64
1:C:140:ILE:O	1:C:143:PHE:HB3	1.99	0.63
1:C:181:TRP:CE2	1:C:185:ASN:ND2	2.68	0.62
1:C:153:GLU:O	1:C:157:LYS:HG3	2.00	0.61
1:A:182:ILE:HD13	1:A:188:TRP:CZ2	2.35	0.61
1:C:194:LEU:HB2	1:C:195:TYR:CD1	2.36	0.60
1:A:17:LEU:HB3	1:A:22:TYR:HB2	1.84	0.58
1:A:26:GLN:O	1:A:86:VAL:HG23	2.03	0.58
1:A:158:GLU:C	1:A:160:GLN:H	2.07	0.58
1:C:186:GLY:HA3	1:C:190:THR:OG1	2.04	0.58
1:A:12:PHE:CZ	1:A:16:LYS:HE3	2.40	0.57
2:B:55:GLU:HA	2:B:58:ILE:HD13	1.85	0.57
1:A:173:TYR:HE1	1:A:178:LEU:HG	1.70	0.56
1:C:131:PHE:CE1	1:C:135:VAL:HG13	2.41	0.56
2:B:60:GLN:HG2	2:B:63:ARG:HH22	1.70	0.56
2:D:53:ARG:HA	2:D:56:ILE:HD13	1.88	0.56
2:B:60:GLN:HA	2:B:63:ARG:NH1	2.21	0.56
1:C:105:PHE:HE1	2:D:62:PHE:CE2	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:181:TRP:CD2	1:A:185:ASN:ND2	2.76	0.53
1:A:120:TYR:HB2	1:A:169:TRP:CZ2	2.43	0.53
1:A:0:SER:HB3	1:A:3:GLN:HG2	1.90	0.53
1:C:12:PHE:CZ	1:C:16:LYS:HE3	2.43	0.53
1:A:136:ASN:HA	1:A:181:TRP:CZ2	2.43	0.53
1:A:18:SER:HA	1:A:22:TYR:O	2.09	0.52
1:A:197:ASN:C	4:A:212:HOH:O	2.48	0.52
1:A:131:PHE:CE1	1:A:135:VAL:HG13	2.43	0.52
1:A:129:GLU:OE1	1:A:132:ARG:HD3	2.09	0.52
1:A:181:TRP:CE2	1:A:185:ASN:ND2	2.78	0.51
1:C:26:GLN:NE2	1:C:188:TRP:HB2	2.25	0.51
1:A:101:TYR:OH	2:B:68:GLU:HB2	2.11	0.51
1:A:138:GLY:HA3	2:B:70:ASN:HB2	1.91	0.51
1:A:173:TYR:C	1:A:173:TYR:CD1	2.84	0.51
1:A:17:LEU:HD23	1:C:152:VAL:HG22	1.92	0.51
1:C:107:ASP:HA	1:C:153:GLU:OE2	2.10	0.51
1:A:123:PHE:O	1:A:127:VAL:HG23	2.12	0.50
1:C:18:SER:HA	1:C:22:TYR:O	2.11	0.50
1:C:146:PHE:CZ	1:C:150:LEU:HD22	2.46	0.50
1:A:20:LYS:HE2	1:C:152:VAL:HG11	1.94	0.50
1:A:96:GLU:HG2	2:B:73:TYR:OH	2.12	0.50
1:A:173:TYR:CE1	1:A:178:LEU:HG	2.46	0.50
1:C:146:PHE:HB2	2:D:62:PHE:CE2	2.47	0.49
1:A:137:TRP:O	1:A:141:VAL:HG23	2.13	0.49
1:C:25:SER:H	1:C:84:ALA:HB3	1.76	0.49
1:C:135:VAL:HG12	1:C:136:ASN:N	2.28	0.49
2:D:58:ILE:O	2:D:62:PHE:HD1	1.96	0.49
1:C:181:TRP:HE3	1:C:182:ILE:HD12	1.77	0.48
1:A:159:MET:HB3	1:A:162:LEU:HD12	1.96	0.48
1:C:181:TRP:NE1	1:C:185:ASN:ND2	2.61	0.48
1:C:162:LEU:HD23	1:C:165:ARG:HD2	1.95	0.47
1:A:96:GLU:O	1:A:100:ARG:HG3	2.14	0.47
2:D:58:ILE:HD11	2:D:62:PHE:HE1	1.79	0.47
1:A:20:LYS:CG	1:C:152:VAL:HG11	2.44	0.47
2:D:60:GLN:HE21	2:D:63:ARG:NH2	2.13	0.47
1:C:190:THR:O	1:C:193:GLU:HB2	2.16	0.46
2:B:57:TRP:O	2:B:61:GLU:HG3	2.16	0.46
1:A:179:GLU:HB3	1:A:180:PRO:HD3	1.97	0.46
2:B:57:TRP:NE1	2:B:61:GLU:OE2	2.48	0.46
1:C:157:LYS:C	1:C:159:MET:H	2.20	0.46
1:C:120:TYR:O	1:C:124:GLU:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:112:LEU:HD11	1:C:126:VAL:HG21	1.98	0.45
2:B:55:GLU:O	2:B:58:ILE:N	2.42	0.45
1:A:83:MET:HG3	1:A:87:LYS:HE3	1.99	0.45
1:A:120:TYR:HD1	1:A:169:TRP:CD2	2.35	0.45
1:C:109:THR:HA	1:C:114:ILE:HG12	1.99	0.45
1:C:112:LEU:O	1:C:113:HIS:HB2	2.17	0.44
1:A:194:LEU:HD22	2:B:73:TYR:O	2.17	0.44
1:A:179:GLU:N	1:A:180:PRO:CD	2.81	0.44
2:B:60:GLN:HA	2:B:63:ARG:HH12	1.83	0.44
1:A:17:LEU:O	1:A:22:TYR:N	2.46	0.43
2:D:61:GLU:OE2	2:D:64:ARG:NH2	2.52	0.43
1:A:12:PHE:O	1:A:16:LYS:HG2	2.18	0.43
1:C:120:TYR:HD1	1:C:169:TRP:CE2	2.36	0.43
2:D:57:TRP:CZ3	2:D:61:GLU:HB2	2.53	0.43
1:C:112:LEU:HD21	2:D:58:ILE:CG2	2.44	0.43
1:C:114:ILE:O	1:C:114:ILE:HG13	2.19	0.43
1:A:135:VAL:HB	1:A:181:TRP:CG	2.53	0.43
1:C:26:GLN:HE21	1:C:188:TRP:HB2	1.84	0.43
1:C:97:PHE:CZ	2:D:65:ILE:HG13	2.54	0.43
2:D:53:ARG:N	2:D:54:PRO:CD	2.82	0.43
1:A:174:LEU:O	1:A:179:GLU:N	2.52	0.42
1:C:109:THR:OG1	1:C:153:GLU:HG2	2.20	0.42
2:B:55:GLU:HA	2:B:58:ILE:CD1	2.50	0.42
1:A:154:SER:HA	1:A:159:MET:HE2	2.01	0.42
1:A:12:PHE:CE2	1:A:16:LYS:HE3	2.54	0.42
1:C:126:VAL:HG11	1:C:146:PHE:CZ	2.54	0.42
1:A:152:VAL:HG11	1:C:20:LYS:HG3	2.01	0.42
1:C:150:LEU:HD12	1:C:150:LEU:HA	1.88	0.42
1:C:16:LYS:HA	1:C:16:LYS:HD3	1.91	0.41
2:B:55:GLU:O	2:B:56:ILE:C	2.59	0.41
1:C:137:TRP:HH2	1:C:182:ILE:HG13	1.76	0.41
1:A:155:VAL:HG12	1:A:155:VAL:O	2.19	0.41
1:C:179:GLU:N	1:C:180:PRO:CD	2.84	0.41
1:A:134:GLY:O	1:A:139:ARG:NH1	2.48	0.41
1:A:157:LYS:C	1:A:159:MET:H	2.23	0.41
1:C:17:LEU:HB3	1:C:22:TYR:HB2	2.03	0.41
2:D:56:ILE:O	2:D:59:ALA:HB3	2.20	0.41
1:A:24:TRP:CZ3	1:C:163:VAL:HG12	2.56	0.41
1:A:90:LEU:HD21	1:A:144:PHE:CD1	2.56	0.40
1:A:140:ILE:O	1:A:144:PHE:HD2	2.03	0.40
1:A:195:TYR:OH	2:B:70:ASN:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:108:LEU:HD13	1:C:150:LEU:HD13	2.03	0.40
1:C:121:GLN:O	1:C:124:GLU:HB2	2.21	0.40
1:C:105:PHE:CE1	2:D:62:PHE:CE2	3.07	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	138/158 (87%)	125 (91%)	12 (9%)	1 (1%)	22	26
1	C	144/158 (91%)	127 (88%)	16 (11%)	1 (1%)	22	26
2	B	21/26 (81%)	18 (86%)	2 (10%)	1 (5%)	2	1
2	D	17/26 (65%)	14 (82%)	3 (18%)	0	100	100
All	All	320/368 (87%)	284 (89%)	33 (10%)	3 (1%)	17	20

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	56	ILE
1	A	159	MET
1	C	113	HIS

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	120/131 (92%)	116 (97%)	4 (3%)	38	53
1	C	123/131 (94%)	119 (97%)	4 (3%)	38	53
2	B	18/22 (82%)	18 (100%)	0	100	100
2	D	16/22 (73%)	16 (100%)	0	100	100
All	All	277/306 (90%)	269 (97%)	8 (3%)	42	58

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

Mol	Chain	Res	Type
1	A	108	LEU
1	A	113	HIS
1	A	118	THR
1	A	124	GLU
1	C	1	MET
1	C	98	GLU
1	C	172	THR
1	C	189	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	ASN
1	A	185	ASN
1	C	26	GLN
1	C	88	GLN
1	C	128	ASN
2	D	60	GLN

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 monosaccharides 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 [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	142/158 (89%)	0.40	6 (4%) 36 43	25, 48, 75, 101	2 (1%)
1	C	146/158 (92%)	0.37	2 (1%) 75 80	38, 55, 75, 81	0
2	B	23/26 (88%)	0.37	0 100 100	30, 55, 71, 86	0
2	D	19/26 (73%)	0.68	1 (5%) 26 33	58, 66, 74, 75	0
All	All	330/368 (89%)	0.40	9 (2%) 54 62	25, 52, 75, 101	2 (0%)

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	108	LEU	3.9
1	A	114	ILE	3.1
1	A	1	MET	2.9
2	D	62	PHE	2.6
1	A	103	ARG	2.5
1	A	107	ASP	2.3
1	A	22	TYR	2.1
1	C	104	ALA	2.1
1	C	132	ARG	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 monosaccharides 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(Å ²)	Q<0.9
3	ZN	C	210	1/1	0.84	0.14	58,58,58,58	0
3	ZN	C	211	1/1	0.90	0.12	84,84,84,84	0
3	ZN	A	210	1/1	0.98	0.13	52,52,52,52	0

6.5 Other polymers [i](#)

There are no such residues in this entry.