



Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 10:03 pm BST

PDB ID : 3FII
Title : Crystal structure of Clostridium botulinum neurotoxin serotype F catalytic domain with an inhibitor (inh2)
Authors : Agarwal, R.; Swaminathan, S.
Deposited on : 2008-12-11
Resolution : 2.17 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
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

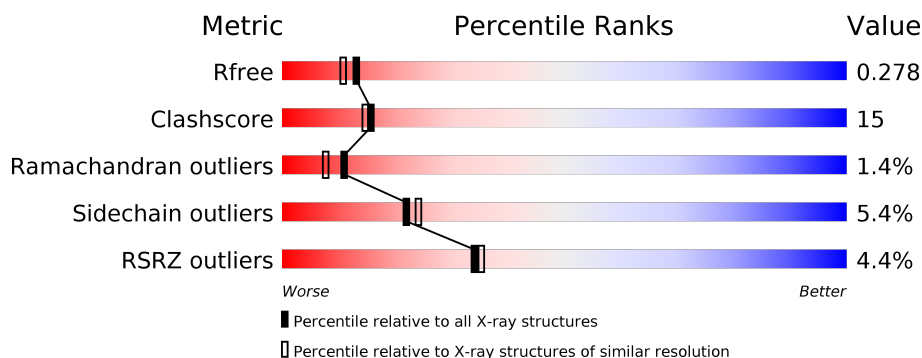
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.17 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	6864 (2.20-2.16)
Clashscore	141614	7689 (2.20-2.16)
Ramachandran outliers	138981	7564 (2.20-2.16)
Sidechain outliers	138945	7564 (2.20-2.16)
RSRZ outliers	127900	6738 (2.20-2.16)

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	427	<div> <div>4%</div> <div> <div></div> <div>64%</div> <div>28%</div> <div>• 6%</div> </div> </div>
2	B	33	<div> <div>9%</div> <div> <div></div> <div>52%</div> <div>24%</div> <div>6%</div> <div>• 15%</div> </div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3622 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 BOTULINUM NEUROTOXIN TYPE F.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	403	Total	C	N	O	S	0	0	0
			3250	2088	527	629	6			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	420	LEU	-	EXPRESSION TAG	UNP Q57236
A	421	GLU	-	EXPRESSION TAG	UNP Q57236
A	422	HIS	-	EXPRESSION TAG	UNP Q57236
A	423	HIS	-	EXPRESSION TAG	UNP Q57236
A	424	HIS	-	EXPRESSION TAG	UNP Q57236
A	425	HIS	-	EXPRESSION TAG	UNP Q57236
A	426	HIS	-	EXPRESSION TAG	UNP Q57236
A	427	HIS	-	EXPRESSION TAG	UNP Q57236

- Molecule 2 is a protein called fragment of Vesicle-associated membrane protein 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	28	Total	C	N	O	S	0	0	1
			220	131	40	47	2			

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

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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	141	Total	O	0	0
			141	141		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	10	Total	O	0	0
			10	10		

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	55.59Å 70.35Å 113.93Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	28.76 – 2.17 28.76 – 2.17	Depositor EDS
% Data completeness (in resolution range)	88.2 (28.76-2.17) 88.2 (28.76-2.17)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.24 (at 2.18Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.246 , 0.290 0.237 , 0.278	Depositor DCC
R_{free} test set	629 reflections (2.79%)	wwPDB-VP
Wilson B-factor (Å ²)	34.1	Xtriage
Anisotropy	0.410	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 42.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3622	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.56% 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: 00C, ZN, NH2

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	0.43	0/3328	0.65	2/4517 (0.0%)
2	B	0.53	0/210	0.78	0/283
All	All	0.44	0/3538	0.66	2/4800 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	9	ASN	N-CA-C	-6.07	94.62	111.00
1	A	153	LEU	CA-CB-CG	5.15	127.14	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	3250	0	3191	92	0
2	B	220	0	215	15	0
3	A	1	0	0	0	0
4	A	141	0	0	5	0
4	B	10	0	0	1	0
All	All	3622	0	3406	101	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 15.

All (101) 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)
2:B:33:GLN:HE21	2:B:33:GLN:HA	1.34	0.92
1:A:124:PRO:HB2	1:A:127:GLU:HG2	1.60	0.84
1:A:363:LYS:H	1:A:404:GLN:HE22	1.28	0.81
1:A:118:LEU:HD22	1:A:130:PRO:HB3	1.64	0.79
1:A:125:ILE:HD12	1:A:125:ILE:H	1.52	0.75
2:B:36:GLN:HA	2:B:36:GLN:HE21	1.51	0.75
1:A:280:SER:HA	1:A:283:LYS:HD2	1.67	0.75
1:A:254:PRO:HD3	1:A:370:ILE:HG23	1.68	0.74
1:A:253:ALA:HB3	1:A:370:ILE:HG12	1.71	0.71
1:A:171:ARG:HG2	1:A:181:ASP:HA	1.72	0.71
1:A:253:ALA:CB	1:A:370:ILE:HG12	2.22	0.69
1:A:253:ALA:HB3	1:A:254:PRO:HD3	1.74	0.69
1:A:363:LYS:H	1:A:404:GLN:NE2	1.91	0.67
1:A:402:ARG:HH11	1:A:402:ARG:HB3	1.62	0.65
2:B:49:ASN:O	2:B:53:VAL:HG13	1.97	0.65
1:A:274:ASP:O	1:A:277:ILE:HG13	1.98	0.64
1:A:393:ASN:HD21	1:A:404:GLN:HE21	1.46	0.62
1:A:147:SER:HB2	2:B:35:THR:O	2.01	0.61
1:A:402:ARG:HH11	1:A:402:ARG:CB	2.15	0.59
1:A:31:LYS:HG2	4:A:1183:HOH:O	2.02	0.59
2:B:33:GLN:CA	2:B:33:GLN:HE21	2.13	0.59
1:A:141:SER:HB3	1:A:145:VAL:H	1.68	0.59
2:B:50:VAL:O	2:B:53:VAL:HG22	2.04	0.56
1:A:41:ARG:O	1:A:42:ASN:HB2	2.06	0.56
1:A:101:ASN:O	1:A:105:GLU:HG3	2.06	0.55
1:A:363:LYS:N	1:A:404:GLN:HE22	2.01	0.55
1:A:171:ARG:HD3	1:A:181:ASP:OD2	2.06	0.55
1:A:243:THR:HG22	1:A:286:ILE:HD13	1.88	0.54
1:A:293:ASN:O	1:A:297:ILE:HG13	2.08	0.54
1:A:385:ILE:HG12	1:A:411:LYS:HD2	1.89	0.54
1:A:127:GLU:HB3	1:A:306:SER:HB3	1.90	0.54
1:A:309:PRO:HG2	1:A:310:GLU:OE2	2.08	0.53
1:A:312:ASP:HB3	1:A:315:GLU:HB2	1.89	0.53
1:A:125:ILE:CD1	1:A:125:ILE:H	2.13	0.53
1:A:140:LYS:HD3	1:A:146:LYS:HE2	1.90	0.53
1:A:337:ASN:HB3	1:A:340:LYS:HD2	1.91	0.53
1:A:295:GLU:HG2	1:A:336:VAL:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:LEU:HD12	1:A:154:LEU:N	2.24	0.51
1:A:291:LEU:O	1:A:295:GLU:HG3	2.10	0.51
1:A:355:ASP:O	1:A:359:LYS:HG3	2.10	0.51
1:A:101:ASN:HB3	1:A:360:PHE:CZ	2.46	0.51
1:A:110:GLU:OE1	1:A:347:LYS:HD2	2.12	0.50
2:B:33:GLN:NE2	2:B:33:GLN:HA	2.16	0.50
1:A:78:LEU:O	1:A:78:LEU:HG	2.12	0.49
1:A:327:ASP:O	1:A:334:TYR:HA	2.11	0.49
1:A:117:TYR:HA	1:A:320:PHE:CE1	2.48	0.49
1:A:393:ASN:HB3	1:A:398:ALA:HA	1.94	0.48
1:A:34:TYR:CD1	1:A:48:GLU:HG3	2.48	0.48
1:A:214:THR:HG23	1:A:215:GLU:H	1.77	0.48
1:A:124:PRO:HB2	1:A:127:GLU:CG	2.38	0.48
1:A:133:ARG:HD2	4:A:1094:HOH:O	2.13	0.48
1:A:46:ILE:HB	1:A:156:LEU:HD23	1.96	0.47
2:B:42:VAL:HG23	2:B:43:VAL:HG23	1.96	0.47
1:A:125:ILE:HD12	1:A:125:ILE:N	2.24	0.47
1:A:355:ASP:OD2	1:A:359:LYS:HE2	2.14	0.47
1:A:80:THR:OG1	1:A:83:GLU:HG3	2.14	0.47
1:A:39:ILE:HD11	1:A:45:ILE:HB	1.95	0.47
1:A:402:ARG:HB3	1:A:402:ARG:NH1	2.29	0.47
1:A:254:PRO:CD	1:A:370:ILE:HG23	2.41	0.47
1:A:86:ARG:NE	4:A:1225:HOH:O	2.45	0.47
1:A:260:LYS:HD3	1:A:262:ILE:HD11	1.97	0.47
1:A:166:SER:HB2	2:B:56:ARG:HD2	1.97	0.47
1:A:289:ASN:N	1:A:289:ASN:HD22	2.13	0.46
1:A:128:PHE:HZ	1:A:317:LYS:HG3	1.79	0.46
1:A:246:GLU:HB3	1:A:264:LEU:HD23	1.98	0.46
1:A:370:ILE:HG22	1:A:371:LYS:N	2.30	0.46
1:A:17:ASP:OD2	1:A:18:THR:HG23	2.16	0.45
1:A:310:GLU:OE1	2:B:35:THR:HG23	2.17	0.45
1:A:386:TYR:HA	1:A:391:GLY:O	2.16	0.45
1:A:168:TYR:HB3	2:B:56:ARG:HB3	1.99	0.45
1:A:289:ASN:HB3	4:A:1147:HOH:O	2.16	0.45
1:A:319:TYR:O	1:A:322:TRP:HB3	2.17	0.45
1:A:169:PRO:HB3	4:A:1005:HOH:O	2.17	0.45
1:A:133:ARG:HG2	1:A:170:VAL:HG11	1.98	0.45
1:A:277:ILE:HD12	1:A:277:ILE:C	2.37	0.44
1:A:198:GLU:O	1:A:377:VAL:HG23	2.18	0.44
1:A:253:ALA:HB2	1:A:370:ILE:HG12	1.99	0.44
1:A:28:GLU:OE1	1:A:28:GLU:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:TYR:HA	1:A:320:PHE:CZ	2.54	0.43
1:A:226:ALA:O	1:A:230:ILE:HG13	2.18	0.43
1:A:26:TYR:N	1:A:28:GLU:OE1	2.51	0.43
1:A:131:VAL:HG21	2:B:37:ALA:HB3	2.01	0.43
1:A:282:MET:O	1:A:286:ILE:HG13	2.19	0.43
1:A:115:LYS:HA	1:A:116:PRO:HD3	1.94	0.43
1:A:263:ARG:HB2	1:A:263:ARG:NH1	2.33	0.43
1:A:185:ASP:HA	1:A:293:ASN:OD1	2.19	0.42
2:B:36:GLN:NE2	2:B:36:GLN:HA	2.28	0.42
1:A:247:THR:HG22	1:A:263:ARG:HG2	2.00	0.42
1:A:295:GLU:HG2	1:A:336:VAL:CG2	2.49	0.42
1:A:337:ASN:HB3	1:A:340:LYS:HB2	2.00	0.42
1:A:344:ILE:O	1:A:347:LYS:HB3	2.18	0.42
1:A:27:GLU:N	1:A:28:GLU:OE1	2.53	0.42
1:A:30:SER:OG	1:A:32:LYS:HG3	2.19	0.42
2:B:38:GLN:HB2	4:B:1125:HOH:O	2.20	0.41
1:A:46:ILE:HB	1:A:156:LEU:CD2	2.51	0.41
1:A:201:TYR:HA	1:A:373:GLY:O	2.20	0.41
1:A:316:TYR:OH	2:B:33:GLN:HG2	2.21	0.41
1:A:279:THR:O	1:A:283:LYS:HG3	2.21	0.41
1:A:285:LYS:O	1:A:289:ASN:ND2	2.54	0.41
1:A:14:VAL:HG13	1:A:20:LEU:HA	2.02	0.41
1:A:158:ALA:HB2	1:A:196:SER:OG	2.21	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	399/427 (93%)	372 (93%)	22 (6%)	5 (1%)	12 8
2	B	25/33 (76%)	23 (92%)	1 (4%)	1 (4%)	3 1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	424/460 (92%)	395 (93%)	23 (5%)	6 (1%)	11	8

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	253	ALA
1	A	254	PRO
1	A	379	ASN
2	B	33	GLN
1	A	64	SER
1	A	63	ALA

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	361/383 (94%)	343 (95%)	18 (5%)	24	27
2	B	25/30 (83%)	22 (88%)	3 (12%)	5	3
All	All	386/413 (94%)	365 (95%)	21 (5%)	22	24

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	20	LEU
1	A	95	PHE
1	A	112	SER
1	A	121	GLU
1	A	125	ILE
1	A	153	LEU
1	A	183	SER
1	A	214	THR
1	A	215	GLU
1	A	251	LYS
1	A	256	MET
1	A	284	GLU

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Mol	Chain	Res	Type
1	A	289	ASN
1	A	296	LYS
1	A	303	ARG
1	A	342	ASN
1	A	372	TYR
1	A	402	ARG
2	B	33	GLN
2	B	35	THR
2	B	36	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	9	ASN
1	A	42	ASN
1	A	184	ASN
1	A	288	ASN
1	A	289	ASN
1	A	293	ASN
1	A	358	ASN
1	A	404	GLN
2	B	33	GLN
2	B	36	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue 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	00C	B	58	3,2	3,7,9	0.63	0	1,8,13	1.94	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
2	00C	B	58	3,2	-	1/2/6/9	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	58	00C	CA-CB-SG-OD2

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is 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

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 [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	403/427 (94%)	0.38	16 (3%) 38 39	26, 39, 48, 54	7 (1%)
2	B	26/33 (78%)	1.09	3 (11%) 4 5	43, 47, 53, 54	0
All	All	429/460 (93%)	0.42	19 (4%) 34 35	26, 39, 49, 54	7 (1%)

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	253	ALA	6.7
1	A	255	LEU	4.5
1	A	396	ASN	4.1
1	A	154	LEU	3.2
1	A	66	GLU	3.2
1	A	225	LEU	3.0
1	A	155	VAL	3.0
1	A	68	GLY	2.7
1	A	408	LEU	2.7
1	A	193	VAL	2.6
2	B	36	GLN	2.6
1	A	195	PHE	2.5
1	A	91	THR	2.3
1	A	63	ALA	2.2
2	B	32	LEU	2.2
1	A	394	ILE	2.1
1	A	229	LEU	2.1
2	B	38	GLN	2.0
1	A	222	ALA	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
2	00C	B	58	8/10	0.93	0.11	46,47,51,51	0

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(Å ²)	Q<0.9
3	ZN	A	822	1/1	0.95	0.05	53,53,53,53	0

6.5 Other polymers [i](#)

There are no such residues in this entry.