



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 3, 2023 – 09:17 AM EDT

PDB ID : 6UHT  
Title : Crystal structure of BoNT/B receptor-binding domain in complex with VHH JLI-G10  
Authors : Lam, K.; Jin, R.  
Deposited on : 2019-09-28  
Resolution : 2.20 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](mailto: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>.

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

MolProbity : 4.02b-467  
Xtrriage (Phenix) : 1.13  
EDS : 2.35.1  
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

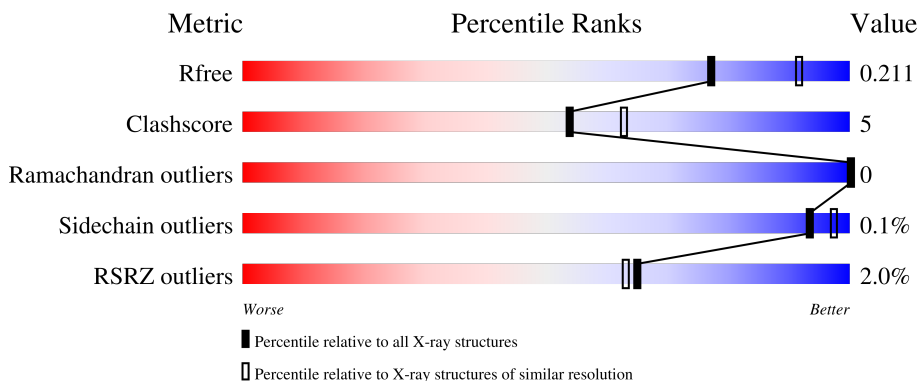
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.20 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	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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  $\geq 3$ , 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	438	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 87%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 11%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 2%; height: 10px; background-color: grey;"></div> </div> <p style="margin-left: 20px;">2%      87%      11%      .</p>
1	B	438	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 87%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 9%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 2%; height: 10px; background-color: grey;"></div> </div> <p style="margin-left: 20px;">2%      87%      9%      .</p>
2	C	140	<div style="display: flex; align-items: center;"> <div style="width: 1%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 73%; 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: 11%; height: 10px; background-color: grey;"></div> </div> <p style="margin-left: 20px;">%      73%      15%      .      11%</p>
2	D	140	<div style="display: flex; align-items: center;"> <div style="width: 74%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 19%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 7%; height: 10px; background-color: grey;"></div> </div> <p style="margin-left: 20px;">74%      19%      7%</p>

## 2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 9563 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 B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	431	Total	C	N	O	S	0	0	0
			3664	2370	598	688	8			
1	B	421	Total	C	N	O	S	0	1	0
			3560	2300	585	667	8			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	854	GLY	-	expression tag	UNP P10844
A	855	PRO	-	expression tag	UNP P10844
A	856	LEU	-	expression tag	UNP P10844
A	857	GLY	-	expression tag	UNP P10844
A	858	SER	-	expression tag	UNP P10844
B	854	GLY	-	expression tag	UNP P10844
B	855	PRO	-	expression tag	UNP P10844
B	856	LEU	-	expression tag	UNP P10844
B	857	GLY	-	expression tag	UNP P10844
B	858	SER	-	expression tag	UNP P10844

- Molecule 2 is a protein called JLI-G10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	124	Total	C	N	O	S	0	1	0
			942	590	160	186	6			
2	D	130	Total	C	N	O	S	0	1	0
			989	621	168	194	6			

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	252	Total	O	0	0
			252	252		

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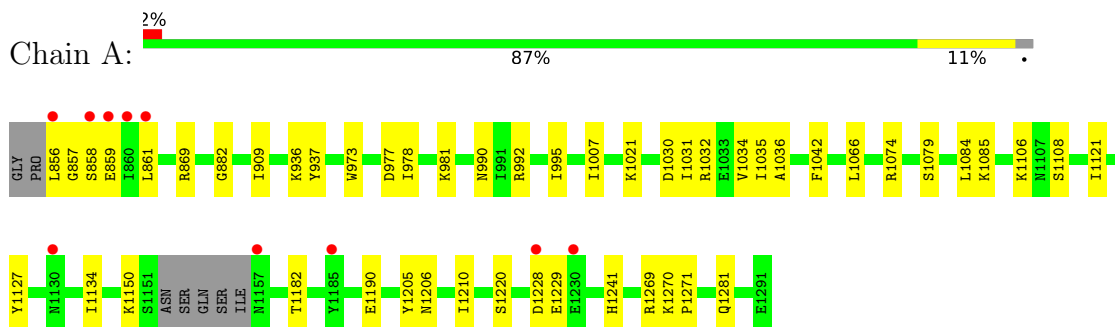
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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
3	B	115	Total 115	O 115	0	0
3	C	23	Total 23	O 23	0	0
3	D	18	Total 18	O 18	0	0

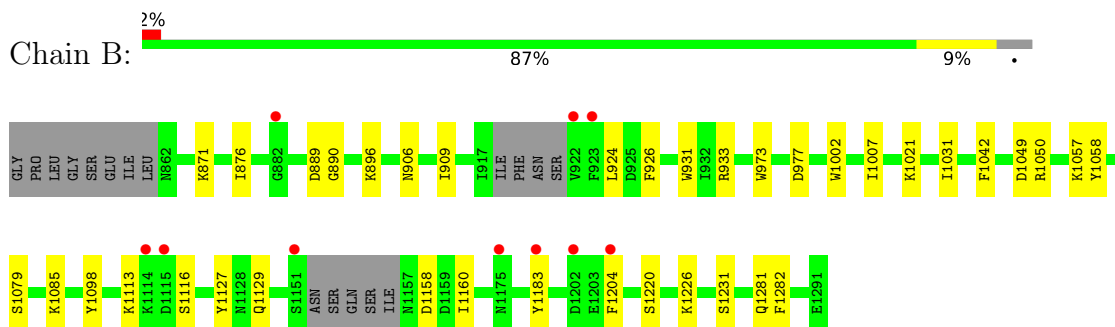
### 3 Residue-property plots [i](#)

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.

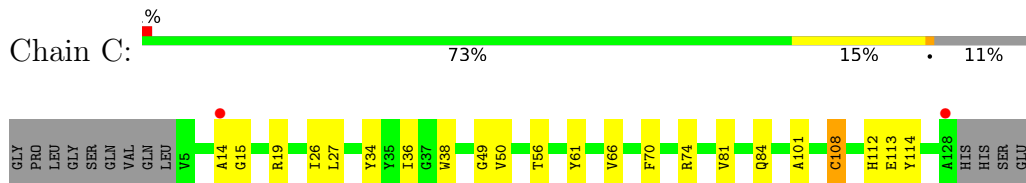
- Molecule 1: Botulinum neurotoxin type B



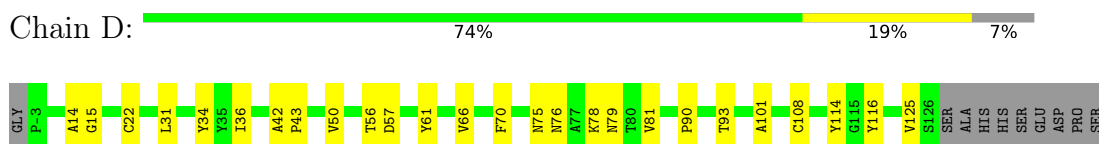
- Molecule 1: Botulinum neurotoxin type B



- Molecule 2: JLI-G10



- Molecule 2: JLI-G10



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 63	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	223.15Å 223.15Å 58.49Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	96.63 – 2.20 96.63 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.0 (96.63-2.20) 99.0 (96.63-2.20)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.15 (at 2.20Å)	Xtrriage
Refinement program	PHENIX 1.9_1692	Depositor
R, $R_{free}$	0.194 , 0.211 0.196 , 0.211	Depositor DCC
$R_{free}$ test set	4213 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	33.7	Xtrriage
Anisotropy	0.490	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 50.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.024 for h,-h-k,-l	Xtrriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	9563	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	46.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.06% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>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](#)

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	0.48	0/3751	0.61	0/5057
1	B	0.36	0/3645	0.52	0/4914
2	C	0.47	0/966	0.63	0/1314
2	D	0.42	0/1014	0.57	0/1379
All	All	0.43	0/9376	0.58	0/12664

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	3664	0	3569	37	0
1	B	3560	0	3462	26	0
2	C	942	0	896	17	0
2	D	989	0	951	18	0
3	A	252	0	0	5	0
3	B	115	0	0	1	0
3	C	23	0	0	0	0
3	D	18	0	0	0	0
All	All	9563	0	8878	95	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 5.

All (95) 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:B:924:LEU:HD11	1:B:926:PHE:CE1	2.10	0.86
2:C:38:TRP:O	2:C:50:VAL:HG12	1.82	0.80
1:B:890:GLY:HA3	1:B:906:ASN:OD1	1.84	0.78
2:D:93:THR:HG22	2:D:125:VAL:H	1.50	0.75
1:B:924:LEU:HD11	1:B:926:PHE:CD1	2.24	0.73
2:D:75:ASN:O	2:D:76:ASN:HB2	1.89	0.72
1:A:978:ILE:HG22	1:A:1035:ILE:HG13	1.71	0.71
2:C:50:VAL:CG2	2:C:66:VAL:HG11	2.22	0.69
1:A:1269:ARG:CZ	2:C:56:THR:HG23	2.23	0.68
2:C:50:VAL:HG23	2:C:66:VAL:HG11	1.76	0.68
1:A:1269:ARG:NH2	2:C:56:THR:CG2	2.58	0.67
1:A:857:GLY:HA2	1:A:869:ARG:HH21	1.58	0.67
1:B:924:LEU:HD11	1:B:926:PHE:HE1	1.60	0.66
1:B:890:GLY:CA	1:B:906:ASN:OD1	2.44	0.65
1:A:856:LEU:C	1:A:869:ARG:HE	2.01	0.62
1:B:1049:ASP:OD1	1:B:1050:ARG:N	2.32	0.62
2:C:34:TYR:OH	2:C:74:ARG:NH2	2.33	0.62
1:A:1228:ASP:OD1	1:A:1229:GLU:N	2.34	0.61
2:D:66:VAL:HG13	2:D:70:PHE:HB2	1.82	0.59
1:A:856:LEU:HD12	3:A:1405:HOH:O	2.03	0.58
1:A:858:SER:CB	1:A:1074:ARG:HG3	2.34	0.56
1:A:1190:GLU:HG3	1:A:1241:HIS:CG	2.41	0.56
1:B:1113:LYS:HB3	1:B:1116:SER:HB3	1.89	0.55
1:A:1079:SER:O	1:A:1085:LYS:NZ	2.41	0.54
2:D:79:ASN:OD1	2:D:79:ASN:O	2.25	0.54
2:D:90:PRO:O	2:D:93:THR:HG23	2.07	0.54
1:A:1206:ASN:ND2	3:A:1303:HOH:O	2.27	0.53
1:B:909:ILE:HB	1:B:1042:PHE:HB2	1.89	0.53
1:A:1269:ARG:CZ	2:C:56:THR:CG2	2.86	0.53
1:B:1057:LYS:HE2	1:B:1058:TYR:CE2	2.44	0.53
1:B:1098:TYR:CG	1:B:1282:PHE:HB3	2.44	0.52
1:A:1220:SER:HA	1:A:1281:GLN:HG2	1.91	0.52
2:D:34:TYR:CE1	2:D:36:ILE:HG13	2.45	0.51
2:D:61:TYR:HB2	2:D:108[A]:CYS:SG	2.50	0.51
1:B:977:ASP:HB3	1:B:1031:ILE:HG23	1.92	0.51
1:B:1079:SER:O	1:B:1085:LYS:NZ	2.42	0.51
2:D:93:THR:CG2	2:D:125:VAL:H	2.21	0.51
1:B:931:TRP:HB2	1:B:1057:LYS:HB3	1.93	0.50
1:A:1270:LYS:HA	1:A:1271:PRO:C	2.31	0.50
2:D:56:THR:HG22	2:D:57:ASP:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1127:TYR:CZ	1:B:1129:GLN:HB2	2.46	0.50
1:A:1036:ALA:HB1	3:A:1351:HOH:O	2.11	0.49
2:D:22:CYS:HB3	2:D:81:VAL:HG13	1.93	0.49
1:A:859:GLU:O	1:A:1074:ARG:NH2	2.36	0.48
2:C:19:ARG:NH1	2:C:84:GLN:HG2	2.28	0.48
2:C:61:TYR:HB2	2:C:108[A]:CYS:SG	2.54	0.48
1:A:1084:LEU:HD13	1:A:1210:ILE:HG12	1.95	0.47
1:A:857:GLY:CA	1:A:869:ARG:HH21	2.23	0.47
2:D:93:THR:HG22	2:D:125:VAL:N	2.24	0.47
1:A:1127:TYR:CZ	1:A:1134:ILE:HD11	2.50	0.47
1:A:1108:SER:HB3	1:A:1121:ILE:CG2	2.46	0.46
2:C:36:ILE:HG21	2:C:81:VAL:HG21	1.98	0.46
2:D:14:ALA:HA	2:D:15:GLY:HA2	1.67	0.45
2:D:31:LEU:HD11	2:D:116:TYR:CE2	2.52	0.45
1:A:981:LYS:HG2	1:A:1031:ILE:HG22	1.99	0.45
1:B:1021:LYS:HA	1:B:1021:LYS:HD3	1.81	0.45
1:A:882:GLY:HA2	3:A:1335:HOH:O	2.16	0.45
1:A:1150:LYS:HE3	1:A:1229:GLU:OE2	2.17	0.45
1:B:1158:ASP:OD2	1:B:1160:ILE:HD12	2.17	0.45
2:D:22:CYS:HB3	2:D:81:VAL:CG1	2.48	0.44
2:C:14:ALA:HA	2:C:15:GLY:HA2	1.63	0.44
1:B:871:LYS:HD3	1:B:876:ILE:HD12	2.00	0.44
2:C:101:ALA:HB2	2:C:114:TYR:HA	1.99	0.44
1:A:995:ILE:HG13	1:A:1106:LYS:HB3	2.00	0.44
2:D:50:VAL:HG13	2:D:66:VAL:HG11	2.00	0.44
1:A:856:LEU:HG	1:A:869:ARG:HG3	2.00	0.43
1:B:1220:SER:HA	1:B:1281:GLN:HG2	2.00	0.43
2:D:78:LYS:O	2:D:79:ASN:OD1	2.36	0.43
1:B:973:TRP:CD2	1:B:1007:ILE:HG21	2.54	0.43
1:B:889:ASP:CG	3:B:1307:HOH:O	2.57	0.43
1:B:896:LYS:O	1:B:1057:LYS:HE3	2.18	0.43
1:A:1066:LEU:HD13	1:A:1074:ARG:NH1	2.34	0.42
2:C:26:ILE:HG13	2:C:27:LEU:H	1.83	0.42
2:C:26:ILE:HG23	2:C:27:LEU:HG	2.01	0.42
2:D:101:ALA:HB2	2:D:114:TYR:HA	2.02	0.42
1:A:1190:GLU:HG3	1:A:1241:HIS:CD2	2.54	0.42
1:A:909:ILE:HB	1:A:1042:PHE:HB2	2.02	0.42
1:A:978:ILE:HD11	1:A:1032:ARG:CZ	2.49	0.42
1:A:1021:LYS:HA	1:A:1021:LYS:HD3	1.91	0.42
2:C:50:VAL:HG21	2:C:70:PHE:CE2	2.54	0.42
1:B:924:LEU:CD1	1:B:926:PHE:CD1	3.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:973:TRP:CD2	1:A:1007:ILE:HG21	2.55	0.41
1:A:1030:ASP:OD1	1:A:1030:ASP:N	2.53	0.41
1:A:861:LEU:HD23	1:A:861:LEU:HA	1.74	0.41
1:A:990:ASN:OD1	1:A:992:ARG:N	2.48	0.41
1:B:933:ARG:HD3	1:B:1002:TRP:CD1	2.55	0.41
1:B:1183:TYR:CD1	1:B:1204:PHE:HE1	2.38	0.41
1:A:977:ASP:HA	1:A:1034:VAL:HG22	2.03	0.41
2:D:42:ALA:HB1	2:D:43:PRO:HD2	2.03	0.41
1:A:1182:THR:CG2	1:A:1205:TYR:HB2	2.51	0.41
3:A:1344:HOH:O	2:C:49:GLY:HA3	2.21	0.41
2:C:112:HIS:CE1	2:C:113:GLU:HG3	2.56	0.41
1:A:936:LYS:HG2	1:A:937:TYR:O	2.21	0.40
1:B:1226:LYS:NZ	1:B:1231:SER:O	2.54	0.40
1:B:871:LYS:HB3	1:B:876:ILE:HD12	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	427/438 (98%)	409 (96%)	18 (4%)	0	100	100
1	B	416/438 (95%)	400 (96%)	16 (4%)	0	100	100
2	C	123/140 (88%)	115 (94%)	8 (6%)	0	100	100
2	D	129/140 (92%)	120 (93%)	9 (7%)	0	100	100
All	All	1095/1156 (95%)	1044 (95%)	51 (5%)	0	100	100

There are no Ramachandran outliers to report.

### 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	403/411 (98%)	403 (100%)	0	100	100
1	B	389/411 (95%)	389 (100%)	0	100	100
2	C	97/110 (88%)	95 (98%)	2 (2%)	53	67
2	D	103/110 (94%)	103 (100%)	0	100	100
All	All	992/1042 (95%)	990 (100%)	2 (0%)	93	97

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	C	108[A]	CYS
2	C	108[B]	CYS

Sometimes 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 monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	431/438 (98%)	-0.44	10 (2%) 60 58	20, 33, 71, 114	0
1	B	421/438 (96%)	-0.33	10 (2%) 59 56	33, 51, 94, 131	0
2	C	124/140 (88%)	-0.35	2 (1%) 72 70	28, 39, 75, 101	0
2	D	130/140 (92%)	-0.45	0 100 100	34, 44, 75, 93	0
All	All	1106/1156 (95%)	-0.39	22 (1%) 65 63	20, 42, 84, 131	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	860	ILE	7.5
1	A	858	SER	6.9
1	A	856	LEU	4.7
1	A	1157	ASN	3.9
1	A	1228	ASP	3.3
1	A	1185	TYR	3.2
2	C	128	ALA	2.8
1	B	1114	LYS	2.6
1	B	1115	ASP	2.6
1	B	1183	TYR	2.6
1	B	1175	ASN	2.6
2	C	14	ALA	2.5
1	B	923	PHE	2.4
1	B	1204	PHE	2.4
1	A	859	GLU	2.4
1	A	861	LEU	2.4
1	B	922	VAL	2.4
1	A	1130	ASN	2.3
1	B	1202	ASP	2.3
1	A	1230	GLU	2.2
1	B	882	GLY	2.1
1	B	1151	SER	2.1

## 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](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.