



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 11:35 PM EDT

PDB ID : 4P7D
Title : Antitoxin HicB3 crystal structure
Authors : Li de la Sierra-Gallay, I.; Bibi-Triki, S.; van Tilbeurgh, H.; Lazar, N.; Pradel, E.
Deposited on : 2014-03-27
Resolution : 2.78 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
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.37.1
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)	:	2.37.1

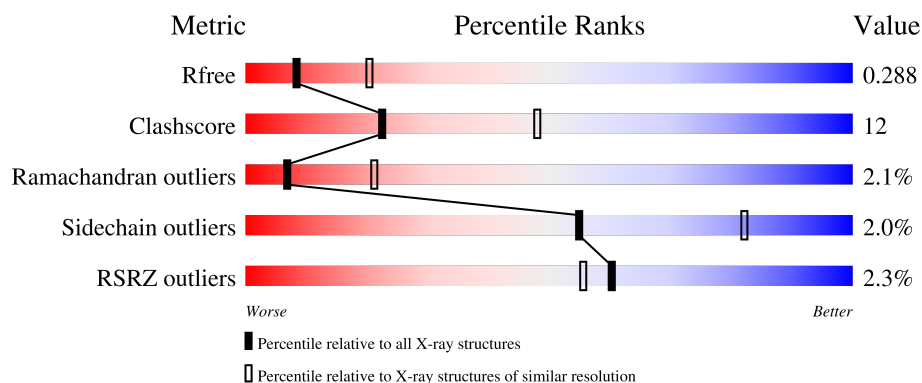
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.78 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	4107 (2.80-2.76)
Clashscore	141614	4575 (2.80-2.76)
Ramachandran outliers	138981	4487 (2.80-2.76)
Sidechain outliers	138945	4489 (2.80-2.76)
RSRZ outliers	127900	4027 (2.80-2.76)

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	143	<div> <div>3%</div> <div>71%</div> <div>21%</div> <div>6%</div> </div>
1	B	143	<div> <div>%</div> <div>75%</div> <div>19%</div> <div>%</div> </div>
1	C	143	<div> <div>%</div> <div>69%</div> <div>24%</div> <div>6%</div> </div>
1	D	143	<div> <div>3%</div> <div>66%</div> <div>28%</div> <div>5%</div> </div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 4335 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 Antitoxin HicB3.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	135	Total	C	N	O	S	Se	0	0	0
			1077	700	173	200	1	3			
1	B	137	Total	C	N	O	S	Se	0	0	0
			1094	711	175	204	1	3			
1	C	135	Total	C	N	O	S	Se	0	0	0
			1077	700	173	200	1	3			
1	D	136	Total	C	N	O	S	Se	0	0	0
			1085	706	174	201	1	3			

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	136	LEU	-	expression tag	UNP Q0WBS6
A	137	GLU	-	expression tag	UNP Q0WBS6
A	138	HIS	-	expression tag	UNP Q0WBS6
A	139	HIS	-	expression tag	UNP Q0WBS6
A	140	HIS	-	expression tag	UNP Q0WBS6
A	141	HIS	-	expression tag	UNP Q0WBS6
A	142	HIS	-	expression tag	UNP Q0WBS6
A	143	HIS	-	expression tag	UNP Q0WBS6
B	136	LEU	-	expression tag	UNP Q0WBS6
B	137	GLU	-	expression tag	UNP Q0WBS6
B	138	HIS	-	expression tag	UNP Q0WBS6
B	139	HIS	-	expression tag	UNP Q0WBS6
B	140	HIS	-	expression tag	UNP Q0WBS6
B	141	HIS	-	expression tag	UNP Q0WBS6
B	142	HIS	-	expression tag	UNP Q0WBS6
B	143	HIS	-	expression tag	UNP Q0WBS6
C	136	LEU	-	expression tag	UNP Q0WBS6
C	137	GLU	-	expression tag	UNP Q0WBS6
C	138	HIS	-	expression tag	UNP Q0WBS6
C	139	HIS	-	expression tag	UNP Q0WBS6
C	140	HIS	-	expression tag	UNP Q0WBS6

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Chain	Residue	Modelled	Actual	Comment	Reference
C	141	HIS	-	expression tag	UNP Q0WBS6
C	142	HIS	-	expression tag	UNP Q0WBS6
C	143	HIS	-	expression tag	UNP Q0WBS6
D	136	LEU	-	expression tag	UNP Q0WBS6
D	137	GLU	-	expression tag	UNP Q0WBS6
D	138	HIS	-	expression tag	UNP Q0WBS6
D	139	HIS	-	expression tag	UNP Q0WBS6
D	140	HIS	-	expression tag	UNP Q0WBS6
D	141	HIS	-	expression tag	UNP Q0WBS6
D	142	HIS	-	expression tag	UNP Q0WBS6
D	143	HIS	-	expression tag	UNP Q0WBS6

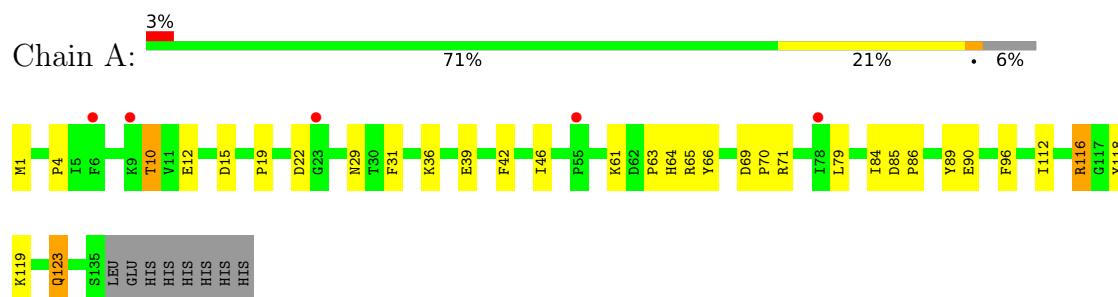
- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	C	1	Total Cl 1 1	0	0
2	D	1	Total Cl 1 1	0	0

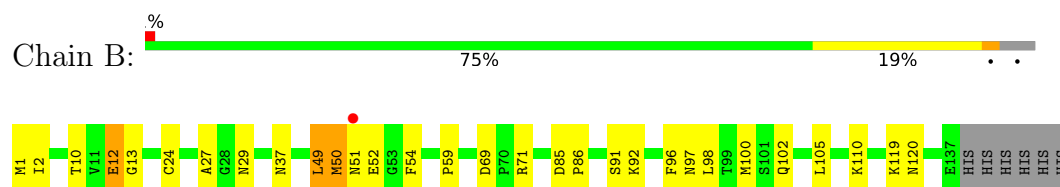
3 Residue-property plots [i](#)

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.

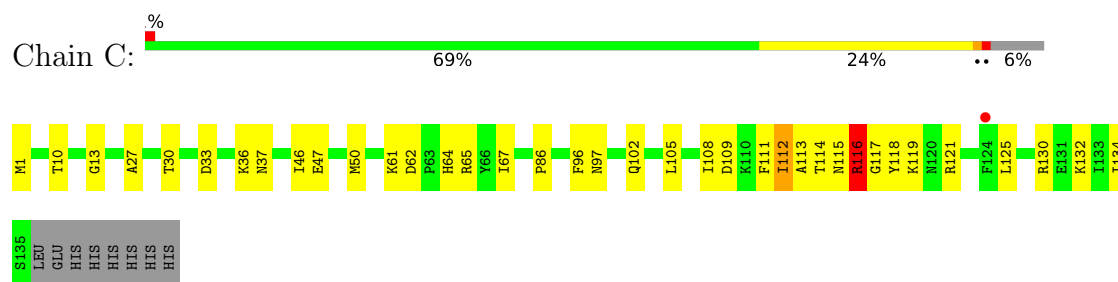
• Molecule 1: Antitoxin HicB3



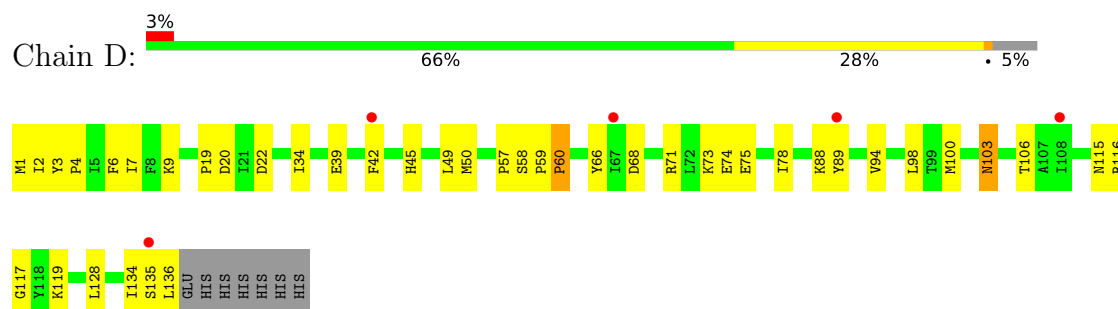
• Molecule 1: Antitoxin HicB3



• Molecule 1: Antitoxin HicB3



• Molecule 1: Antitoxin HicB3



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	69.84Å 76.87Å 118.17Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.85 – 2.78 46.85 – 2.78	Depositor EDS
% Data completeness (in resolution range)	99.4 (46.85-2.78) 99.5 (46.85-2.78)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.41 (at 2.77Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.4_1496)	Depositor
R, R_{free}	0.205 , 0.282 0.207 , 0.288	Depositor DCC
R_{free} test set	825 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	69.8	Xtriage
Anisotropy	0.356	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 41.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4335	wwPDB-VP
Average B, all atoms (Å ²)	63.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.45% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section:
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	0.53	0/1103	0.65	0/1486
1	B	0.54	0/1120	0.68	0/1509
1	C	0.56	0/1103	0.71	0/1486
1	D	0.49	0/1111	0.65	0/1497
All	All	0.53	0/4437	0.67	0/5978

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	C	0	1
1	D	0	1
All	All	0	3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	116	ARG	Peptide
1	C	116	ARG	Peptide
1	D	50	MSE	Peptide

5.2 Too-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 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	1077	0	1058	28	0
1	B	1094	0	1075	21	0
1	C	1077	0	1058	35	0
1	D	1085	0	1069	29	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
All	All	4335	0	4260	100	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 12.

All (100) 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:D:58:SER:H	1:D:134:ILE:HG21	1.27	1.00
1:A:119:LYS:H	1:A:123:GLN:NE2	1.61	0.98
1:A:119:LYS:H	1:A:123:GLN:HE21	1.01	0.96
1:B:2:ILE:HD11	1:C:36:LYS:HE2	1.60	0.83
1:D:57:PRO:HA	1:D:134:ILE:HG12	1.59	0.82
1:C:114:THR:H	1:C:116:ARG:HH21	1.29	0.81
1:C:47:GLU:HA	1:D:103:ASN:HD21	1.47	0.79
1:C:125:LEU:HD12	1:D:98:LEU:HD11	1.62	0.79
1:B:13:GLY:HA2	1:B:29:ASN:HA	1.66	0.78
1:A:119:LYS:N	1:A:123:GLN:HE21	1.84	0.71
1:C:96:PHE:HZ	1:D:100:MSE:HE3	1.56	0.71
1:C:109:ASP:O	1:C:112:ILE:HG13	1.91	0.71
1:B:27:ALA:O	1:B:37:ASN:ND2	2.23	0.70
1:A:79:LEU:HD23	1:D:78:ILE:HG12	1.74	0.69
1:C:27:ALA:O	1:C:37:ASN:ND2	2.27	0.68
1:C:115:ASN:O	1:C:117:GLY:N	2.26	0.67
1:A:96:PHE:HE1	1:B:100:MSE:HG2	1.62	0.65
1:D:58:SER:N	1:D:134:ILE:HG21	2.08	0.63
1:C:114:THR:N	1:C:116:ARG:HE	1.96	0.63
1:C:10:THR:HG22	1:C:13:GLY:C	2.18	0.63
1:C:116:ARG:HH11	1:C:118:TYR:HB2	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:114:THR:OG1	1:C:116:ARG:NH2	2.34	0.60
1:D:68:ASP:HA	1:D:73:LYS:HE3	1.83	0.60
1:B:49:LEU:O	1:B:51:ASN:N	2.34	0.60
1:C:102:GLN:HG3	1:D:94:VAL:HG11	1.81	0.60
1:A:90:GLU:O	1:B:102:GLN:HB3	2.01	0.60
1:D:6:PHE:HE2	1:D:71:ARG:HH11	1.50	0.60
1:C:116:ARG:NH1	1:C:118:TYR:HB2	2.17	0.59
1:C:114:THR:N	1:C:116:ARG:HH21	1.99	0.58
1:C:111:PHE:O	1:C:116:ARG:NH2	2.37	0.57
1:C:62:ASP:O	1:C:65:ARG:HG2	2.05	0.56
1:B:50:MSE:HA	1:B:54:PHE:H	1.71	0.56
1:D:135:SER:OG	1:D:136:LEU:N	2.38	0.56
1:A:42:PHE:CZ	1:A:46:ILE:HD12	2.41	0.56
1:B:13:GLY:CA	1:B:29:ASN:HA	2.36	0.55
1:C:46:ILE:HG23	1:C:50:MSE:HE3	1.87	0.55
1:A:36:LYS:HE3	1:D:2:ILE:HD11	1.87	0.55
1:A:61:LYS:O	1:A:63:PRO:HD3	2.08	0.53
1:A:116:ARG:C	1:A:118:TYR:H	2.12	0.53
1:C:108:ILE:O	1:C:112:ILE:HG23	2.09	0.53
1:D:60:PRO:HG3	1:D:66:TYR:OH	2.08	0.53
1:D:7:ILE:HD13	1:D:34:ILE:HD13	1.90	0.53
1:A:112:ILE:O	1:A:116:ARG:HB3	2.08	0.53
1:A:1:MSE:CE	1:A:86:PRO:HB3	2.39	0.53
1:B:69:ASP:OD2	1:B:71:ARG:NH1	2.27	0.52
1:B:49:LEU:O	1:B:52:GLU:HG3	2.10	0.52
1:B:97:ASN:O	1:B:98:LEU:HD23	2.09	0.51
1:D:115:ASN:O	1:D:117:GLY:N	2.44	0.51
1:C:109:ASP:OD2	1:C:121:ARG:NH1	2.35	0.50
1:B:1:MSE:HE3	1:B:86:PRO:HB3	1.94	0.49
1:B:119:LYS:HG3	1:B:120:ASN:ND2	2.27	0.49
1:C:30:THR:O	1:C:33:ASP:HB2	2.12	0.49
1:C:62:ASP:HB3	1:C:64:HIS:CE1	2.48	0.48
1:D:20:ASP:OD2	1:D:66:TYR:OH	2.30	0.48
1:C:96:PHE:C	1:C:97:ASN:HD22	2.17	0.48
1:C:119:LYS:N	1:C:119:LYS:HD2	2.29	0.48
1:C:130:ARG:O	1:C:134:ILE:HG12	2.13	0.48
1:A:96:PHE:CE1	1:B:100:MSE:HG2	2.46	0.47
1:D:134:ILE:HG22	1:D:135:SER:N	2.29	0.47
1:A:1:MSE:HE2	1:A:86:PRO:HB3	1.96	0.46
1:C:105:LEU:HA	1:C:108:ILE:HD12	1.96	0.46
1:C:114:THR:H	1:C:116:ARG:NH2	2.07	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:HIS:C	1:A:66:TYR:H	2.19	0.46
1:C:113:ALA:C	1:C:116:ARG:HE	2.19	0.46
1:D:88:LYS:HG3	1:D:89:TYR:CD2	2.51	0.46
1:A:69:ASP:OD1	1:A:71:ARG:HG2	2.15	0.45
1:B:92:LYS:HA	1:B:92:LYS:HD2	1.63	0.45
1:A:84:ILE:HG23	1:A:89:TYR:HE2	1.81	0.45
1:A:12:GLU:O	1:A:29:ASN:ND2	2.48	0.44
1:C:116:ARG:HA	1:C:118:TYR:H	1.83	0.44
1:A:84:ILE:HG23	1:A:89:TYR:CE2	2.53	0.44
1:A:10:THR:OG1	1:A:15:ASP:HB2	2.17	0.44
1:C:97:ASN:HD22	1:C:97:ASN:N	2.16	0.43
1:A:4:PRO:O	1:A:19:PRO:HD2	2.19	0.43
1:C:64:HIS:O	1:C:67:ILE:HG12	2.18	0.43
1:D:39:GLU:O	1:D:42:PHE:HB3	2.17	0.43
1:D:3:TYR:HE1	1:D:57:PRO:HG2	1.84	0.43
1:A:85:ASP:HA	1:A:86:PRO:HD2	1.71	0.43
1:C:1:MSE:CE	1:C:86:PRO:HB3	2.49	0.43
1:C:111:PHE:O	1:C:116:ARG:CZ	2.66	0.43
1:A:69:ASP:HA	1:A:70:PRO:HD2	1.77	0.43
1:A:42:PHE:CE1	1:A:46:ILE:HD12	2.54	0.42
1:D:1:MSE:SE	1:D:59:PRO:HD3	2.69	0.42
1:D:6:PHE:CE1	1:D:19:PRO:HG3	2.55	0.42
1:B:1:MSE:HB2	1:B:59:PRO:HG3	2.02	0.42
1:A:64:HIS:CD2	1:D:9:LYS:HG2	2.55	0.42
1:D:22:ASP:O	1:D:45:HIS:NE2	2.50	0.42
1:A:116:ARG:CA	1:A:118:TYR:H	2.33	0.41
1:B:105:LEU:HA	1:B:105:LEU:HD12	1.81	0.41
1:A:31:PHE:CZ	1:D:4:PRO:HB3	2.56	0.41
1:B:96:PHE:HE2	1:B:98:LEU:HD21	1.85	0.41
1:D:88:LYS:HE3	1:D:89:TYR:HE2	1.86	0.41
1:A:39:GLU:CD	1:B:110:LYS:HE3	2.40	0.41
1:B:12:GLU:O	1:B:12:GLU:HG3	2.19	0.41
1:C:132:LYS:HA	1:C:132:LYS:HD2	1.96	0.41
1:D:103:ASN:O	1:D:106:THR:HB	2.21	0.41
1:C:111:PHE:O	1:C:116:ARG:NH1	2.54	0.41
1:D:49:LEU:HD23	1:D:49:LEU:HA	1.72	0.40
1:B:85:ASP:HA	1:B:86:PRO:HD2	1.88	0.40
1:D:128:LEU:HD23	1:D:128:LEU:HA	1.92	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	133/143 (93%)	124 (93%)	8 (6%)	1 (1%)	19	47
1	B	135/143 (94%)	125 (93%)	7 (5%)	3 (2%)	6	20
1	C	133/143 (93%)	124 (93%)	7 (5%)	2 (2%)	10	30
1	D	134/143 (94%)	117 (87%)	12 (9%)	5 (4%)	3	9
All	All	535/572 (94%)	490 (92%)	34 (6%)	11 (2%)	7	21

All (11) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	49	LEU
1	B	50	MSE
1	B	91	SER
1	D	116	ARG
1	D	119	LYS
1	C	116	ARG
1	D	74	GLU
1	A	65	ARG
1	C	61	LYS
1	D	60	PRO
1	D	103	ASN

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	114/119 (96%)	111 (97%)	3 (3%)	46	76
1	B	116/119 (98%)	113 (97%)	3 (3%)	46	76
1	C	114/119 (96%)	112 (98%)	2 (2%)	59	84
1	D	115/119 (97%)	114 (99%)	1 (1%)	78	92
All	All	459/476 (96%)	450 (98%)	9 (2%)	55	82

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	10	THR
1	A	22	ASP
1	A	123	GLN
1	B	10	THR
1	B	12	GLU
1	B	24	CYS
1	C	112	ILE
1	C	116	ARG
1	D	75	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	45	HIS
1	A	123	GLN
1	C	97	ASN
1	D	103	ASN

5.3.3 RNA ⓘ

There are no RNA molecules 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 monosaccharides in this entry.

5.6 Ligand geometry

Of 2 ligands modelled in this entry, 2 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

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	132/143 (92%)	0.32	5 (3%) 40 35	43, 60, 84, 98	0
1	B	134/143 (93%)	0.15	1 (0%) 87 86	40, 55, 83, 102	0
1	C	132/143 (92%)	0.10	1 (0%) 86 84	39, 55, 89, 101	0
1	D	133/143 (93%)	0.41	5 (3%) 40 35	48, 72, 93, 97	0
All	All	531/572 (92%)	0.25	12 (2%) 60 55	39, 60, 89, 102	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	6	PHE	3.0
1	D	108	ILE	2.9
1	C	124	PHE	2.5
1	A	23	GLY	2.5
1	D	42	PHE	2.4
1	A	78	ILE	2.3
1	D	89	TYR	2.2
1	A	9	LYS	2.2
1	B	51	ASN	2.1
1	D	67	ILE	2.1
1	D	135	SER	2.1
1	A	55	PRO	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](#)

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	CL	C	201	1/1	0.94	0.16	78,78,78,78	0
2	CL	D	201	1/1	0.96	0.17	68,68,68,68	0

6.5 Other polymers [i](#)

There are no such residues in this entry.