



Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 06:45 am BST

PDB ID : 5D55
Title : Crystal structure of the E. coli Hda pilus minor tip subunit, HdaB
Authors : Lee, W.-C.; Garnett, J.A.; Matthews, S.J.
Deposited on : 2015-08-10
Resolution : 2.00 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

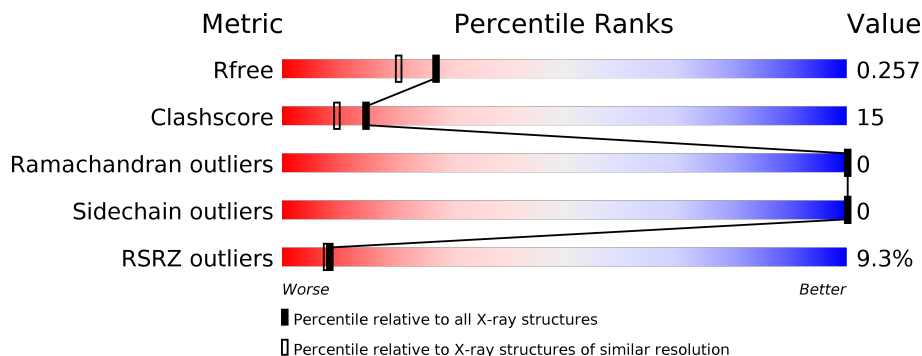
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	157	
1	B	157	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	FLC	A	201	-	-	-	X
2	FLC	B	201	-	-	-	X
3	IOD	B	203	-	-	X	-

2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 2483 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 HdaB,HdaA (Adhesin), HUS-associated diffuse adherence.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	143	1102	700	193	201	8	0	7	0
1	B	147	1098	699	191	200	8	0	4	0

There are 44 discrepancies between the modelled and reference sequences:

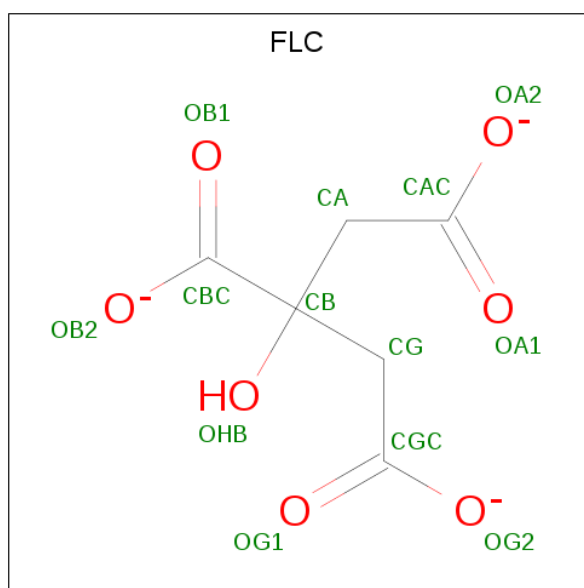
Chain	Residue	Modelled	Actual	Comment	Reference
A	-10	MET	-	initiating methionine	UNP B3V224
A	-9	GLY	-	expression tag	UNP B3V224
A	-8	SER	-	expression tag	UNP B3V224
A	-7	HIS	-	expression tag	UNP B3V224
A	-6	HIS	-	expression tag	UNP B3V224
A	-5	HIS	-	expression tag	UNP B3V224
A	-4	HIS	-	expression tag	UNP B3V224
A	-3	HIS	-	expression tag	UNP B3V224
A	-2	HIS	-	expression tag	UNP B3V224
A	-1	GLY	-	expression tag	UNP B3V224
A	0	SER	-	expression tag	UNP B3V224
A	120	HIS	-	linker	UNP B3V224
A	121	MET	-	linker	UNP B3V224
A	122	ASP	-	linker	UNP B3V224
A	123	ASN	-	linker	UNP B3V224
A	124	LYS	-	linker	UNP B3V224
A	125	GLN	-	linker	UNP B3V224
A	126	GLU	-	linker	UNP B3V224
A	127	PHE	-	linker	UNP B3V224
A	144	LYS	-	expression tag	UNP Q08JP6
A	145	LEU	-	expression tag	UNP Q08JP6
A	146	ASN	-	expression tag	UNP Q08JP6
B	-10	MET	-	initiating methionine	UNP B3V224
B	-9	GLY	-	expression tag	UNP B3V224
B	-8	SER	-	expression tag	UNP B3V224

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-7	HIS	-	expression tag	UNP B3V224
B	-6	HIS	-	expression tag	UNP B3V224
B	-5	HIS	-	expression tag	UNP B3V224
B	-4	HIS	-	expression tag	UNP B3V224
B	-3	HIS	-	expression tag	UNP B3V224
B	-2	HIS	-	expression tag	UNP B3V224
B	-1	GLY	-	expression tag	UNP B3V224
B	0	SER	-	expression tag	UNP B3V224
B	120	HIS	-	linker	UNP B3V224
B	121	MET	-	linker	UNP B3V224
B	122	ASP	-	linker	UNP B3V224
B	123	ASN	-	linker	UNP B3V224
B	124	LYS	-	linker	UNP B3V224
B	125	GLN	-	linker	UNP B3V224
B	126	GLU	-	linker	UNP B3V224
B	127	PHE	-	linker	UNP B3V224
B	144	LYS	-	expression tag	UNP Q08JP6
B	145	LEU	-	expression tag	UNP Q08JP6
B	146	ASN	-	expression tag	UNP Q08JP6

- Molecule 2 is CITRATE ANION (three-letter code: FLC) (formula: C₆H₅O₇).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf		
2	A	1	Total	C	O	0	0
			13	6	7		
2	B	1	Total	C	O	0	0
			13	6	7		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	0
			13	6	7		

- Molecule 3 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	I	0	0
			1	1		

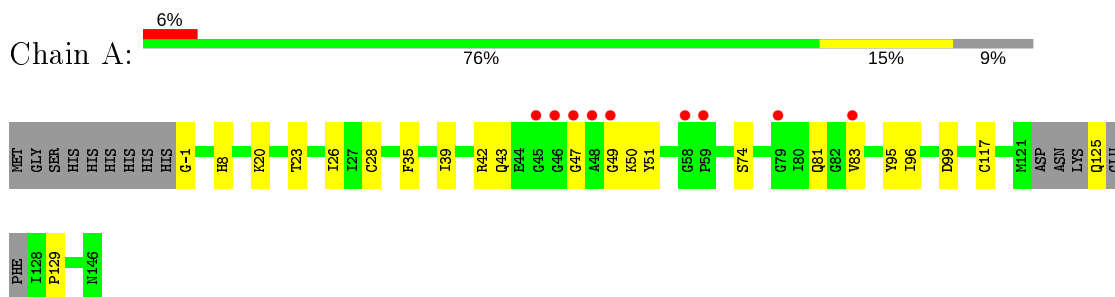
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	112	Total	O	0	5
			117	117		
4	B	117	Total	O	0	9
			126	126		

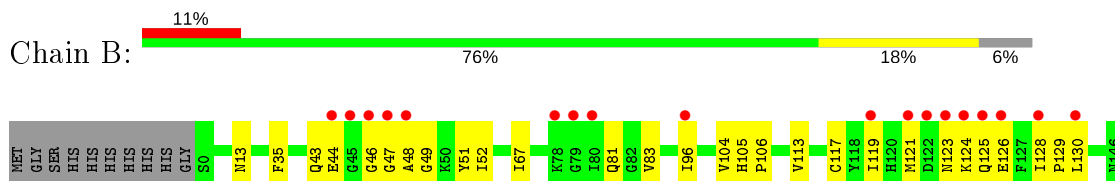
3 Residue-property plots [i](#)

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: HdaB,HdaA (Adhesin), HUS-associated diffuse adherence



- Molecule 1: HdaB,HdaA (Adhesin), HUS-associated diffuse adherence



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	112.29Å 112.29Å 61.65Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	79.40 – 2.00 28.07 – 2.00	Depositor EDS
% Data completeness (in resolution range)	97.6 (79.40-2.00) 97.7 (28.07-2.00)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.05 (at 1.99Å)	Xtrriage
Refinement program	REFMAC 5.6.0062	Depositor
R, R_{free}	0.203 , 0.248 0.218 , 0.257	Depositor DCC
R_{free} test set	2654 reflections (9.99%)	wwPDB-VP
Wilson B-factor (Å ²)	33.9	Xtrriage
Anisotropy	0.177	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 49.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2483	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.42% 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: FLC, IOD

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	0.82	0/1144	0.64	0/1542
1	B	0.67	0/1133	0.63	0/1533
All	All	0.75	0/2277	0.63	0/3075

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	1102	0	1062	27	0
1	B	1098	0	1033	40	0
2	A	13	0	5	0	0
2	B	26	0	10	2	0
3	B	1	0	0	2	0
4	A	117	0	0	1	0
4	B	126	0	0	1	0
All	All	2483	0	2110	65	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 (65) 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:28[B]:CYS:SG	1:A:117[B]:CYS:SG	1.43	1.26
1:A:28[B]:CYS:CB	1:A:117[B]:CYS:SG	2.30	1.19
1:B:119:ILE:HD11	1:B:130:LEU:HD13	1.13	1.11
2:B:202:FLC:OB1	2:B:202:FLC:OG2	1.76	1.02
1:B:46:GLY:HA2	1:B:48:ALA:HA	1.42	1.02
1:B:124:LYS:HA	1:B:125:GLN:CB	1.87	1.01
1:B:121:MET:CE	1:B:128:ILE:HD13	1.92	1.00
1:A:28[B]:CYS:SG	1:A:117[B]:CYS:CB	2.50	0.99
1:B:124:LYS:CB	1:B:126:GLU:H	1.74	0.98
1:B:121:MET:HE3	1:B:128:ILE:HD13	1.43	0.98
1:B:119:ILE:CD1	1:B:130:LEU:HD13	1.96	0.95
1:B:124:LYS:CA	1:B:126:GLU:H	1.83	0.92
1:A:129:PRO:HD2	1:B:128:ILE:CG2	2.04	0.86
1:A:28[A]:CYS:HG	1:A:117[A]:CYS:HG	1.25	0.84
1:B:124:LYS:HA	1:B:126:GLU:H	1.43	0.84
1:B:119:ILE:HD11	1:B:130:LEU:CD1	2.06	0.80
1:B:124:LYS:CA	1:B:125:GLN:CB	2.65	0.75
1:B:47:GLY:HA3	1:B:48:ALA:C	2.09	0.72
1:B:46:GLY:HA2	1:B:48:ALA:CA	2.18	0.72
1:B:124:LYS:HA	1:B:126:GLU:N	2.05	0.72
1:B:124:LYS:CB	1:B:126:GLU:N	2.52	0.71
1:B:121:MET:HE2	1:B:128:ILE:HD13	1.72	0.69
1:A:125:GLN:N	1:B:123:ASN:O	2.25	0.69
1:A:28[B]:CYS:HB2	1:A:117[B]:CYS:SG	2.30	0.68
1:A:28[A]:CYS:SG	1:A:117[A]:CYS:CB	2.83	0.66
1:B:124:LYS:CA	1:B:126:GLU:N	2.59	0.66
1:B:117[B]:CYS:SG	1:B:130:LEU:HD23	2.38	0.64
1:A:129:PRO:HD2	1:B:128:ILE:HG21	1.77	0.64
3:B:203:IOD:I	4:B:355:HOH:O	2.86	0.62
1:B:128:ILE:HG23	1:B:129:PRO:HD2	1.83	0.61
1:B:44:GLU:HG3	1:B:52:ILE:CG1	2.31	0.59
1:A:50:LYS:HG2	1:A:99:ASP:OD2	2.02	0.59
1:B:128:ILE:CG2	1:B:129:PRO:HD2	2.33	0.58
1:A:8:HIS:HE1	1:A:23:THR:OG1	1.87	0.57
1:A:47:GLY:H	1:A:50:LYS:HD3	1.69	0.57
1:B:105:HIS:HD2	1:B:106:PRO:O	1.90	0.53
1:A:28[B]:CYS:SG	1:A:117[B]:CYS:HB2	2.47	0.52
1:A:28[A]:CYS:HG	1:A:117[A]:CYS:CB	2.19	0.52
1:B:47:GLY:CA	1:B:48:ALA:C	2.76	0.52
1:A:129:PRO:HD2	1:B:128:ILE:HG23	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:ILE:HD11	1:A:96:ILE:HD12	1.95	0.49
1:A:49:GLY:O	1:A:51:TYR:CE2	2.65	0.49
1:A:43:GLN:OE1	1:A:81:GLN:NE2	2.47	0.48
1:B:47:GLY:CA	1:B:48:ALA:O	2.62	0.47
1:A:-1:GLY:O	1:A:117[A]:CYS:SG	2.72	0.47
1:B:96:ILE:HD11	1:B:113:VAL:HG11	1.95	0.47
1:A:26:ILE:HG12	1:A:35:PHE:CD2	2.50	0.46
1:B:81:GLN:HB2	2:B:201:FLC:HG2	1.97	0.46
1:B:44:GLU:HB2	1:B:49:GLY:HA3	1.97	0.46
1:B:46:GLY:CA	1:B:48:ALA:HA	2.31	0.45
1:A:42[A]:ARG:NE	4:A:304:HOH:O	2.49	0.45
1:B:123:ASN:O	1:B:125:GLN:CB	2.65	0.45
1:A:26:ILE:HG12	1:A:35:PHE:HD2	1.81	0.44
1:B:35:PHE:CD1	1:B:117[A]:CYS:SG	3.11	0.44
1:A:49:GLY:O	1:A:51:TYR:CD2	2.71	0.44
1:B:67:ILE:HG21	1:B:83:VAL:HG21	1.99	0.43
1:B:35:PHE:CE1	1:B:117[A]:CYS:SG	3.11	0.43
1:A:20:LYS:HD3	1:A:95:TYR:CD1	2.54	0.43
1:A:42[A]:ARG:HG2	1:A:43:GLN:N	2.34	0.42
1:A:74[A]:SER:OG	1:A:83:VAL:HG12	2.19	0.42
1:B:43:GLN:HE22	1:B:81:GLN:HE22	1.67	0.42
1:A:28[A]:CYS:SG	1:A:117[A]:CYS:HB3	2.59	0.42
1:B:43:GLN:CB	1:B:48:ALA:HB1	2.49	0.41
1:B:13:ASN:HB2	1:B:104:VAL:O	2.21	0.41
1:B:51:TYR:HE2	3:B:203:IOD:I	2.74	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	145/157 (92%)	142 (98%)	3 (2%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	149/157 (95%)	143 (96%)	6 (4%)	0	100	100
All	All	294/314 (94%)	285 (97%)	9 (3%)	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	111/130 (85%)	111 (100%)	0	100	100
1	B	107/130 (82%)	107 (100%)	0	100	100
All	All	218/260 (84%)	218 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	7	ASN
1	A	8	HIS
1	A	43	GLN
1	A	81	GLN
1	A	105	HIS
1	B	16	HIS
1	B	40	ASN
1	B	81	GLN
1	B	105	HIS

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 4 ligands modelled in this entry, 1 is monoatomic - leaving 3 for Mogul analysis.

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	FLC	A	201	-	3,12,12	1.18	0	3,17,17	3.34	2 (66%)
2	FLC	B	201	-	3,12,12	1.03	0	3,17,17	1.44	0
2	FLC	B	202	-	3,12,12	1.46	0	3,17,17	4.34	2 (66%)

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	FLC	A	201	-	-	6/6/16/16	-
2	FLC	B	201	-	-	0/6/16/16	-
2	FLC	B	202	-	-	3/6/16/16	-

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	202	FLC	CB-CG-CGC	-5.80	105.70	114.98
2	A	201	FLC	CB-CA-CAC	-4.87	107.19	114.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	202	FLC	CB-CA-CAC	-4.57	107.66	114.98
2	A	201	FLC	CB-CG-CGC	-2.99	110.19	114.98

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	201	FLC	CAC-CA-CB-CBC
2	A	201	FLC	CBC-CB-CG-CGC
2	A	201	FLC	OHB-CB-CG-CGC
2	B	202	FLC	CAC-CA-CB-CBC
2	B	202	FLC	CAC-CA-CB-CG
2	B	202	FLC	CAC-CA-CB-OHB
2	A	201	FLC	CA-CB-CG-CGC
2	A	201	FLC	CAC-CA-CB-OHB
2	A	201	FLC	CAC-CA-CB-CG

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	201	FLC	1	0
2	B	202	FLC	1	0

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	143/157 (91%)	0.37	9 (6%) 20 19	20, 30, 55, 87	0
1	B	147/157 (93%)	0.74	18 (12%) 4 3	22, 32, 68, 91	0
All	All	290/314 (92%)	0.56	27 (9%) 8 8	20, 31, 65, 91	0

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	47	GLY	10.9
1	B	125	GLN	8.3
1	B	46	GLY	7.0
1	B	124	LYS	6.0
1	B	123	ASN	6.0
1	A	48	ALA	5.9
1	A	46	GLY	5.6
1	B	48	ALA	5.5
1	B	45	GLY	5.3
1	B	122	ASP	4.5
1	A	49	GLY	4.2
1	A	79	GLY	3.9
1	A	58	GLY	3.5
1	B	128	ILE	3.3
1	B	44	GLU	3.3
1	B	79	GLY	3.2
1	A	47	GLY	3.2
1	B	119	ILE	3.1
1	B	121	MET	3.0
1	A	45	GLY	2.8
1	B	80	ILE	2.6
1	B	78	LYS	2.6
1	B	126	GLU	2.4
1	A	83	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	96	ILE	2.1
1	A	59	PRO	2.1
1	B	130	LEU	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(Å ²)	Q<0.9
2	FLC	A	201	13/13	0.41	0.48	55,56,57,57	13
2	FLC	B	201	13/13	0.51	0.50	76,77,77,77	13
2	FLC	B	202	13/13	0.56	0.36	47,48,48,49	13
3	IOD	B	203	1/1	0.96	0.19	30,30,30,30	1

6.5 Other polymers [i](#)

There are no such residues in this entry.