Full wwPDB X-ray Structure Validation Report (i)

Oct 24, 2023 – 10:02 PM EDT

PDB ID	:	3AQU
Title	:	Crystal structure of a class V chitinase from Arabidopsis thaliana
Authors	:	Numata, T.; Ohnuma, T.; Osawa, T.; Fukamizo, T.
Deposited on	:	2010-11-19
Resolution	:	2.01 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 (i) 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 (i)) were used in the production of this report:

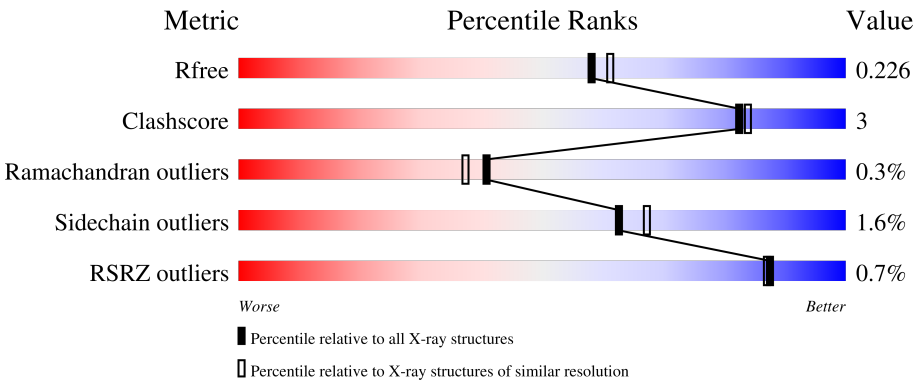
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 2.01 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 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 <=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	356	.% 90% 6% •
1	B	356	91% 5% •
1	C	356	90% 7% •
1	D	356	.% 88% 8% • •

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	B	356	-	X	-	-

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 11184 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.

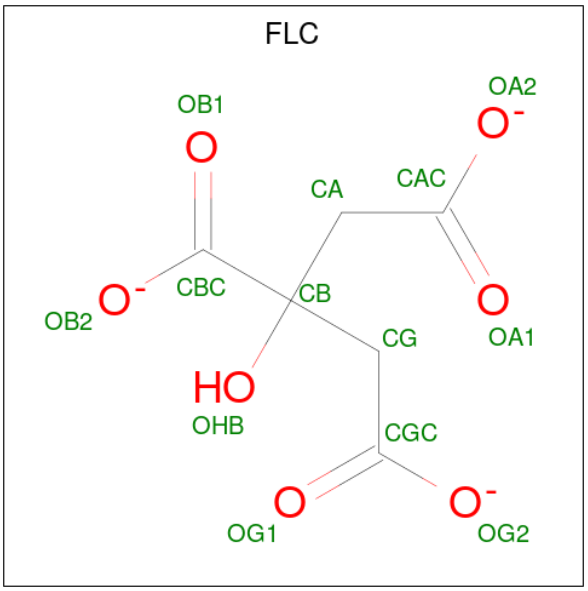
- Molecule 1 is a protein called At4g19810.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	344	2641	1683	445	508	5	0	0	0
1	B	344	2641	1683	445	508	5	0	0	0
1	C	344	2641	1683	445	508	5	0	0	0
1	D	344	2641	1683	445	508	5	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	expression tag	UNP O81862
B	0	MET	-	expression tag	UNP O81862
C	0	MET	-	expression tag	UNP O81862
D	0	MET	-	expression tag	UNP O81862

- Molecule 2 is CITRATE ANION (three-letter code: FLC) (formula: $C_6H_5O_7$).



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

- Molecule 3 is water.

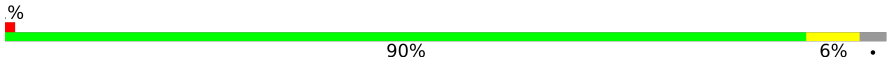
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	167	Total O 167 167	0	0
3	B	184	Total O 184 184	0	0
3	C	107	Total O 107 107	0	0
3	D	123	Total O 123 123	0	0

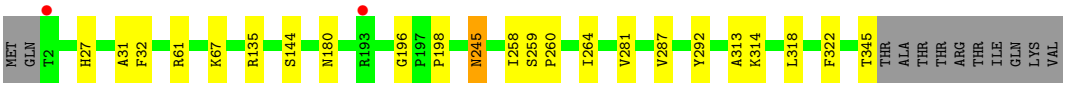
3 Residue-property plots (i)

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: At4g19810

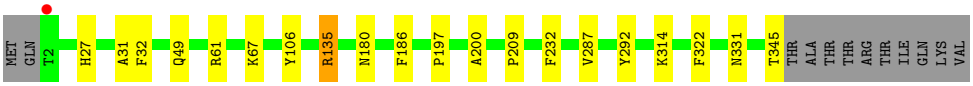
Chain A:





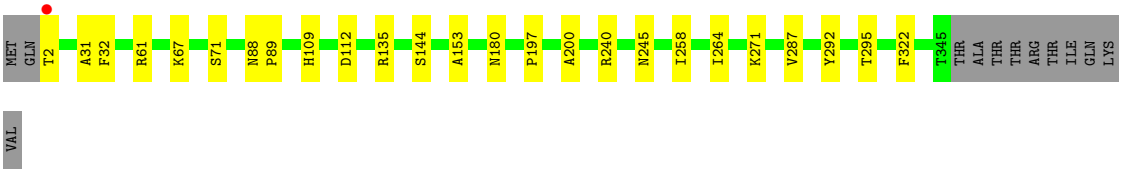
- Molecule 1: At4g19810

Chain B:



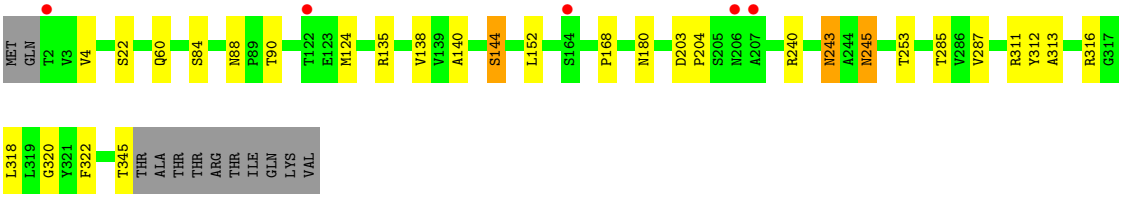
- Molecule 1: At4g19810

Chain C:



- Molecule 1: At4g19810

Chain D:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	74.57Å 75.08Å 97.35Å 73.63° 73.34° 68.47°	Depositor
Resolution (Å)	50.00 – 2.01 45.71 – 2.00	Depositor EDS
% Data completeness (in resolution range)	94.2 (50.00-2.01) 94.2 (45.71-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$< I/\sigma(I) >$ [1]	1.85 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.196 , 0.227 0.197 , 0.226	Depositor DCC
R_{free} test set	5800 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å^2)	11.9	Xtriage
Anisotropy	0.373	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.39 , 38.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.31$	Xtriage
Estimated twinning fraction	0.019 for -k,-h,-l	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	11184	wwPDB-VP
Average B, all atoms (Å^2)	12.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.52% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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

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	0.47	0/2719	0.56	0/3716
1	B	0.48	0/2719	0.56	0/3716
1	C	0.47	0/2719	0.54	0/3716
1	D	0.45	0/2719	0.54	0/3716
All	All	0.47	0/10876	0.55	0/14864

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	2641	0	2510	14	0
1	B	2641	0	2510	12	0
1	C	2641	0	2510	11	1
1	D	2641	0	2510	15	0
2	A	26	0	10	3	0
2	B	13	0	5	1	1
3	A	167	0	0	0	0
3	B	184	0	0	2	0
3	C	107	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	123	0	0	2	0
All	All	11184	0	10055	52	1

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 3.

All (52) 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:245:ASN:C	1:A:245:ASN:HD22	1.81	0.84
1:D:243:ASN:HD22	1:D:245:ASN:H	1.31	0.76
1:A:61:ARG:NH2	2:A:357:FLC:OB1	2.28	0.67
1:D:311:ARG:HG2	1:D:345:THR:HG21	1.76	0.66
1:A:245:ASN:C	1:A:245:ASN:ND2	2.50	0.65
1:C:180:ASN:HB3	1:C:322:PHE:CE2	2.31	0.64
1:C:240:ARG:HD3	1:C:295:THR:OG1	2.01	0.61
1:B:292:TYR:OH	2:B:356:FLC:OG1	2.19	0.60
1:B:27:HIS:HA	1:B:67:LYS:O	2.03	0.59
1:B:331:ASN:HB3	3:B:444:HOH:O	2.01	0.59
1:A:281:VAL:HG21	2:A:356:FLC:HA2	1.85	0.58
1:A:196:GLY:O	1:A:198:PRO:HD3	2.04	0.57
1:D:312:TYR:O	1:D:316:ARG:HG2	2.05	0.56
1:A:259:SER:HB2	1:A:260:PRO:HD2	1.88	0.56
1:B:49:GLN:HG2	1:B:106:TYR:OH	2.09	0.53
1:A:314:LYS:HD3	1:A:345:THR:HB	1.92	0.50
1:B:135:ARG:HD3	1:B:135:ARG:O	2.13	0.49
1:D:180:ASN:HB3	1:D:322:PHE:CE2	2.48	0.49
1:B:314:LYS:HD3	1:B:345:THR:HB	1.96	0.48
1:D:311:ARG:NH1	3:D:402:HOH:O	2.33	0.47
1:D:313:ALA:HA	1:D:318:LEU:HD22	1.96	0.47
1:B:180:ASN:HB3	1:B:322:PHE:CE2	2.49	0.47
1:D:140:ALA:O	1:D:144:SER:HB3	2.13	0.47
1:A:313:ALA:HA	1:A:318:LEU:HD22	1.98	0.46
1:A:258:ILE:HG21	1:A:264:ILE:HD12	1.97	0.46
1:A:31:ALA:HA	1:A:32:PHE:HA	1.82	0.46
1:D:243:ASN:ND2	1:D:245:ASN:H	2.08	0.45
1:D:138:VAL:HG11	1:D:152:LEU:HD21	2.00	0.44
1:C:258:ILE:HG21	1:C:264:ILE:HD12	2.00	0.44
1:D:204:PRO:HG3	1:D:285:THR:HG22	2.00	0.44
1:C:31:ALA:HA	1:C:32:PHE:HA	1.77	0.43
1:D:4:VAL:O	1:D:320:GLY:HA3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:31:ALA:HA	1:B:32:PHE:HA	1.81	0.43
1:B:61:ARG:HD3	3:B:545:HOH:O	2.18	0.43
1:B:186:PHE:HB3	1:B:209:PRO:HG2	2.01	0.43
1:D:203:ASP:HA	1:D:204:PRO:HD2	1.90	0.42
1:C:67:LYS:HD2	1:C:109:HIS:CG	2.54	0.42
1:B:197:PRO:HB2	1:B:200:ALA:HB2	2.01	0.42
1:A:180:ASN:HB3	1:A:322:PHE:CE2	2.55	0.42
1:B:135:ARG:HD3	1:B:135:ARG:C	2.40	0.42
1:C:295:THR:HG22	3:C:414:HOH:O	2.21	0.41
1:D:240:ARG:O	1:D:253:THR:HB	2.20	0.41
1:A:292:TYR:OH	2:A:356:FLC:OA2	2.25	0.41
1:C:112:ASP:HA	1:C:153:ALA:O	2.21	0.41
1:C:197:PRO:HB2	1:C:200:ALA:HB2	2.03	0.41
1:A:31:ALA:HB1	1:A:32:PHE:CD2	2.56	0.41
1:C:61:ARG:HH11	1:C:61:ARG:HG2	1.85	0.41
1:D:60:GLN:NE2	3:D:423:HOH:O	2.45	0.41
1:D:124:MET:O	1:D:168:PRO:HG3	2.21	0.40
1:C:88:ASN:HA	1:C:89:PRO:HD2	1.93	0.40
1:A:27:HIS:HA	1:A:67:LYS:O	2.20	0.40
1:C:71:SER:HA	1:C:112:ASP:O	2.21	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:292:TYR:OH	2:B:356:FLC:OA2[1_556]	1.99	0.21

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	342/356 (96%)	330 (96%)	11 (3%)	1 (0%)	41 37

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	342/356 (96%)	331 (97%)	10 (3%)	1 (0%)	41	37
1	C	342/356 (96%)	329 (96%)	12 (4%)	1 (0%)	41	37
1	D	342/356 (96%)	332 (97%)	9 (3%)	1 (0%)	41	37
All	All	1368/1424 (96%)	1322 (97%)	42 (3%)	4 (0%)	41	37

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	287	VAL
1	C	287	VAL
1	B	287	VAL
1	A	287	VAL

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	276/287 (96%)	273 (99%)	3 (1%)	73	78
1	B	276/287 (96%)	274 (99%)	2 (1%)	84	88
1	C	276/287 (96%)	271 (98%)	5 (2%)	59	63
1	D	276/287 (96%)	268 (97%)	8 (3%)	42	43
All	All	1104/1148 (96%)	1086 (98%)	18 (2%)	62	67

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	135	ARG
1	A	144	SER
1	A	245	ASN
1	B	135	ARG
1	B	232	PHE
1	C	2	THR
1	C	135	ARG

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Mol	Chain	Res	Type
1	C	144	SER
1	C	245	ASN
1	C	271	LYS
1	D	22	SER
1	D	84	SER
1	D	88	ASN
1	D	90	THR
1	D	135	ARG
1	D	144	SER
1	D	243	ASN
1	D	245	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	57	GLN
1	A	243	ASN
1	A	245	ASN
1	A	296	ASN
1	A	325	HIS
1	B	40	ASN
1	B	57	GLN
1	B	126	ASN
1	B	220	GLN
1	B	325	HIS
1	C	245	ASN
1	C	325	HIS
1	D	160	ASN
1	D	206	ASN
1	D	243	ASN
1	D	325	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

3 ligands are 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	FLC	A	356	-	12,12,12	1.61	3 (25%)	17,17,17	2.79	10 (58%)
2	FLC	B	356	-	12,12,12	1.70	4 (33%)	17,17,17	2.47	8 (47%)
2	FLC	A	357	-	12,12,12	0.98	0	17,17,17	1.39	2 (11%)

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	356	-	-	1/16/16/16	-
2	FLC	B	356	-	-	12/16/16/16	-
2	FLC	A	357	-	-	3/16/16/16	-

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	356	FLC	CA-CB	-2.91	1.50	1.53
2	A	356	FLC	CG-CB	-2.64	1.50	1.53
2	A	356	FLC	CA-CB	-2.38	1.50	1.53
2	B	356	FLC	CB-CBC	-2.35	1.51	1.53
2	B	356	FLC	CG-CB	-2.33	1.50	1.53
2	A	356	FLC	CB-CBC	-2.06	1.51	1.53
2	B	356	FLC	OA2-CAC	-2.04	1.23	1.30

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	356	FLC	CG-CB-CA	-7.75	88.93	109.16
2	B	356	FLC	CG-CB-CA	-6.67	91.76	109.16
2	B	356	FLC	CG-CB-CBC	4.26	119.26	110.11
2	A	357	FLC	OB2-CBC-CB	3.64	119.38	113.05
2	A	356	FLC	OB2-CBC-CB	3.59	119.28	113.05
2	B	356	FLC	OG1-CGC-CG	-3.08	113.95	122.94
2	A	356	FLC	OG1-CGC-CG	-3.07	113.98	122.94
2	A	356	FLC	CA-CB-CBC	2.84	116.22	110.11
2	B	356	FLC	OHB-CB-CA	2.72	115.76	109.40
2	A	356	FLC	CG-CB-CBC	2.57	115.63	110.11
2	A	356	FLC	OG2-CGC-OG1	2.53	129.60	123.30
2	A	356	FLC	OB1-CBC-CB	-2.49	118.73	122.25
2	B	356	FLC	OB2-CBC-CB	2.49	117.37	113.05
2	A	356	FLC	OA2-CAC-OA1	2.39	129.25	123.30
2	A	356	FLC	OA1-CAC-CA	-2.35	116.08	122.94
2	B	356	FLC	OG2-CGC-OG1	2.21	128.81	123.30
2	A	356	FLC	OHB-CB-CG	2.18	114.50	109.40
2	B	356	FLC	OB1-CBC-CB	-2.13	119.24	122.25
2	B	356	FLC	OA2-CAC-OA1	2.09	128.52	123.30
2	A	357	FLC	OB1-CBC-CB	-2.01	119.41	122.25

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	357	FLC	CA-CB-CG-CGC
2	B	356	FLC	CA-CB-CBC-OB1
2	B	356	FLC	CA-CB-CBC-OB2
2	B	356	FLC	OHB-CB-CBC-OB2
2	A	357	FLC	CBC-CB-CG-CGC
2	B	356	FLC	CAC-CA-CB-CBC
2	B	356	FLC	CAC-CA-CB-CG
2	B	356	FLC	OHB-CB-CG-CGC
2	A	357	FLC	OHB-CB-CG-CGC
2	B	356	FLC	CAC-CA-CB-OHB
2	B	356	FLC	OHB-CB-CBC-OB1
2	A	356	FLC	CA-CB-CBC-OB2
2	B	356	FLC	CG-CB-CBC-OB2
2	B	356	FLC	CG-CB-CBC-OB1
2	B	356	FLC	CBC-CB-CG-CGC
2	B	356	FLC	CA-CB-CG-CGC

There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	356	FLC	2	0
2	B	356	FLC	1	1
2	A	357	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 (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	344/356 (96%)	-0.53	2 (0%)	89	88	2, 10, 21, 26	0
1	B	344/356 (96%)	-0.57	1 (0%)	94	93	2, 9, 18, 27	0
1	C	344/356 (96%)	-0.35	1 (0%)	94	93	4, 15, 24, 32	0
1	D	344/356 (96%)	-0.38	5 (1%)	73	72	5, 14, 26, 32	0
All	All	1376/1424 (96%)	-0.46	9 (0%)	87	87	2, 12, 24, 32	0

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	207	ALA	5.1
1	C	2	THR	3.2
1	A	193	ARG	2.7
1	A	2	THR	2.4
1	D	206	ASN	2.4
1	D	122	THR	2.2
1	B	2	THR	2.2
1	D	164	SER	2.1
1	D	2	THR	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	FLC	B	356	13/13	0.88	0.17	22,24,26,28	0
2	FLC	A	357	13/13	0.89	0.17	30,31,32,32	0
2	FLC	A	356	13/13	0.89	0.19	20,22,26,27	0

6.5 Other polymers (i)

There are no such residues in this entry.