Full wwPDB X-ray Structure Validation Report (i)

Dec 16, 2023 – 02:42 PM EST

PDB ID	:	3EXJ
Title	:	Crystal Structure of a p53 Core Tetramer Bound to DNA
Authors	:	Malecka, K.A.
Deposited on	:	2008-10-16
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 (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:

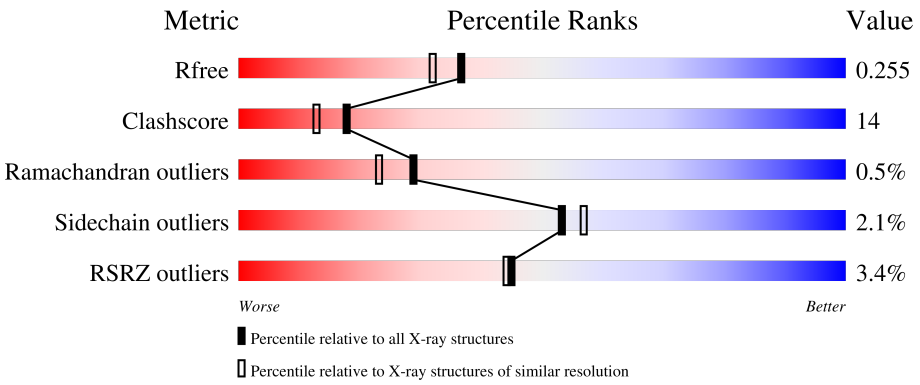
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, 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 2.00 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 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	197	3% 75% 23% • •
1	B	197	4% 79% 17% • •
2	C	11	9% 36% 55% 9%
3	D	12	100%

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
5	FLC	B	585	-	-	-	X

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 4128 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 mouse p53 core domain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	194	1543	961	279	287	16	0	3	0
1	B	194	1524	951	275	282	16	0	1	0

- Molecule 2 is a DNA chain called 5'-D(P*DGP*DAP*DGP*DCP*DAP*DTP*DGP*DCP*DTP*DCP*DA)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	C	11	226	107	43	65	11	0	0	0

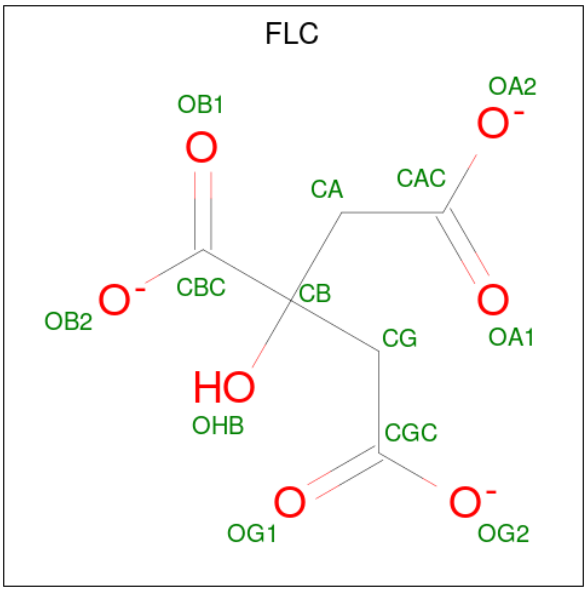
- Molecule 3 is a DNA chain called 5'-D(*DTP*DTP*DGP*DAP*DGP*DCP*DAP*DTP*DGP*DCP*DTP*DC)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	D	12	242	117	42	72	11	0	0	0

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
4	A	1	1	1	0	0
4	B	1	1	1	0	0

- Molecule 5 is CITRATE ANION (three-letter code: FLC) (formula: $C_6H_5O_7$).



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

- Molecule 6 is water.

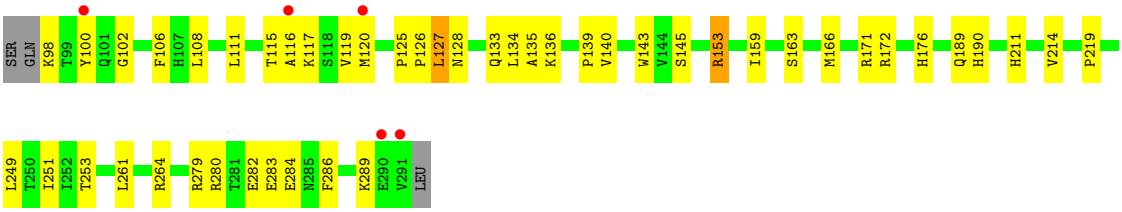
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	297	Total O 297 297	0	0
6	B	237	Total O 237 237	0	0
6	C	30	Total O 30 30	0	0
6	D	14	Total O 14 14	0	0

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.

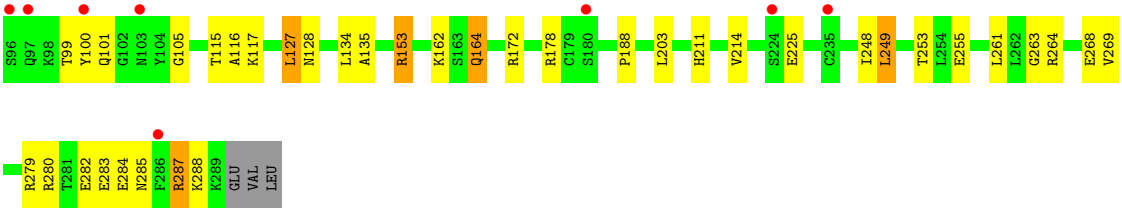
• Molecule 1: mouse p53 core domain

Chain A:



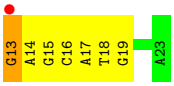
• Molecule 1: mouse p53 core domain

Chain B:



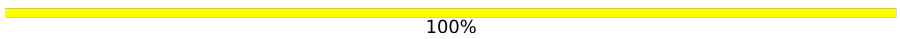
• Molecule 2: 5'-D(P*DGP*DAP*DGP*DCP*DAP*DTP*DGP*DCP*DTP*DCP*DA)-3'

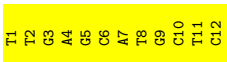
Chain C:



• Molecule 3: 5'-D(*DTP*DTP*DGP*DAP*DGP*DCP*DAP*DTP*DGP*DCP*DTP*DC)-3'

Chain D:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	114.74Å 68.02Å 75.16Å 90.00° 111.12° 90.00°	Depositor
Resolution (Å)	28.70 – 2.00 28.70 – 2.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (28.70-2.00) 91.4 (28.70-2.00)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.78 (at 2.00Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.225 , 0.260 0.221 , 0.255	Depositor DCC
R_{free} test set	3311 reflections (9.17%)	wwPDB-VP
Wilson B-factor (Å^2)	27.7	Xtriage
Anisotropy	0.686	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 49.3	EDS
L-test for twinning[2]	$< \|L\| > = 0.51$, $< L^2 > = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	4128	wwPDB-VP
Average B, all atoms (Å^2)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 47.40 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 9.9840e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

[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: ZN, 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	0.32	0/1581	0.63	0/2143
1	B	0.32	0/1562	0.61	0/2116
2	C	0.48	0/253	1.39	2/388 (0.5%)
3	D	0.37	0/270	0.80	0/415
All	All	0.34	0/3666	0.73	2/5062 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	13	DG	O5'-P-OP2	-17.94	89.17	110.70
2	C	13	DG	P-O5'-C5'	-13.20	99.79	120.90

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	1543	0	1473	39	0
1	B	1524	0	1463	36	0
2	C	226	0	124	8	3
3	D	242	0	138	11	3
4	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	1	0	0	0	0
5	B	13	0	5	1	0
6	A	297	0	0	13	0
6	B	237	0	0	7	0
6	C	30	0	0	2	0
6	D	14	0	0	1	0
All	All	4128	0	3203	92	3

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 14.

All (92) 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:153:ARG:NH1	1:B:214:VAL:HG11	1.83	0.94
1:A:153:ARG:NH1	1:A:214:VAL:HG11	1.90	0.86
1:B:115:THR:HG22	1:B:117:LYS:H	1.40	0.84
2:C:15:DG:H5"	6:C:356:HOH:O	1.82	0.79
1:A:115:THR:HG22	1:A:117:LYS:H	1.46	0.78
1:B:287:ARG:C	1:B:288:LYS:HD2	2.09	0.72
1:B:279:ARG:O	1:B:283:GLU:HG3	1.91	0.71
1:A:111:LEU:HD12	1:A:111:LEU:O	1.91	0.70
1:B:117:LYS:HG2	5:B:585:FLC:HA2	1.73	0.69
1:B:253:THR:HB	1:B:261:LEU:HD11	1.75	0.69
1:A:279:ARG:O	1:A:283:GLU:HG3	1.93	0.69
1:B:164:GLN:NE2	1:B:164:GLN:H	1.93	0.67
1:B:248:ILE:HG13	1:B:269:VAL:HG13	1.76	0.67
3:D:11:DT:H2"	3:D:12:DC:H5'	1.81	0.62
1:A:219:PRO:HG3	6:A:356:HOH:O	2.00	0.62
1:B:99:THR:HG22	6:B:571:HOH:O	2.01	0.61
3:D:1:DT:H2"	3:D:2:DT:H5'	1.83	0.60
3:D:3:DG:H2"	3:D:4:DA:C8	2.35	0.60
1:B:162:LYS:CB	1:B:164:GLN:HE21	2.14	0.60
1:B:153:ARG:NE	6:B:356:HOH:O	2.26	0.59
1:A:116:ALA:HB3	6:A:521:HOH:O	2.02	0.59
2:C:15:DG:H2"	2:C:16:DC:OP2	2.01	0.59
1:B:134:LEU:HD23	1:B:135:ALA:N	2.18	0.58
1:B:101:GLN:HB3	1:B:105:GLY:HA2	1.86	0.58
2:C:17:DA:H2"	2:C:18:DT:H5'	1.86	0.57
1:B:248:ILE:HG13	1:B:269:VAL:CG1	2.34	0.57
2:C:17:DA:N7	6:C:452:HOH:O	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:VAL:HG13	6:A:370:HOH:O	2.05	0.56
1:A:108:LEU:HB3	6:A:370:HOH:O	2.05	0.56
1:A:163:SER:O	1:A:166:MET:HE2	2.07	0.55
1:A:119:VAL:HG12	6:A:526:HOH:O	2.05	0.55
2:C:17:DA:H2	3:D:8:DT:O2	1.90	0.55
1:B:153:ARG:HH12	1:B:214:VAL:HG11	1.66	0.54
3:D:8:DT:H1'	3:D:9:DG:C8	2.43	0.54
1:B:255:GLU:HG2	1:B:261:LEU:HD12	1.90	0.53
1:A:134:LEU:HD23	1:A:135:ALA:N	2.23	0.53
3:D:1:DT:H2"	3:D:2:DT:C5'	2.37	0.53
1:A:253:THR:HG22	1:A:264[B]:ARG:HG3	1.91	0.53
1:B:172:ARG:HD3	1:B:188:PRO:O	2.09	0.52
1:A:102:GLY:HA2	6:A:515:HOH:O	2.10	0.52
1:A:211:HIS:HD2	6:A:44:HOH:O	1.92	0.52
3:D:5:DG:H2"	3:D:6:DC:OP2	2.10	0.52
1:B:203:LEU:HB3	6:B:505:HOH:O	2.10	0.51
1:B:225:GLU:HA	6:B:486:HOH:O	2.09	0.51
1:A:153:ARG:HH12	1:A:214:VAL:HG11	1.74	0.51
1:A:253:THR:HG22	1:A:264[A]:ARG:HG3	1.93	0.50
1:B:248:ILE:CG1	1:B:269:VAL:HG13	2.39	0.50
1:A:282:GLU:HG3	6:A:328:HOH:O	2.11	0.49
1:A:100:TYR:OH	1:A:261:LEU:HB3	2.13	0.49
1:A:171:ARG:HH21	1:A:189:GLN:HG2	1.78	0.49
1:A:125:PRO:N	1:A:126:PRO:HD2	2.28	0.49
1:B:287:ARG:HD3	6:B:450:HOH:O	2.13	0.48
1:B:288:LYS:HD2	1:B:288:LYS:N	2.28	0.48
1:A:120[B]:MET:CE	1:A:136:LYS:HE2	2.43	0.48
1:A:280:ARG:HD2	6:A:555:HOH:O	2.13	0.47
3:D:10:DC:H2"	3:D:11:DT:OP2	2.14	0.47
3:D:9:DG:N2	6:D:443:HOH:O	2.48	0.47
1:A:120[A]:MET:HE2	1:A:136:LYS:HE2	1.96	0.47
1:A:172:ARG:HD2	1:A:190:HIS:O	2.15	0.47
1:B:211:HIS:HD2	6:B:360:HOH:O	1.99	0.46
3:D:7:DA:H2"	3:D:8:DT:H5'	1.98	0.46
2:C:18:DT:H1'	2:C:19:DG:C8	2.51	0.46
1:B:127:LEU:O	1:B:128:ASN:C	2.54	0.45
1:A:280:ARG:O	1:A:284:GLU:HG3	2.16	0.45
1:B:249:LEU:HD12	1:B:268:GLU:HA	1.99	0.45
1:B:282:GLU:HG3	6:B:316:HOH:O	2.17	0.45
1:A:98:LYS:O	1:A:264[A]:ARG:NE	2.50	0.45
1:A:106:PHE:HA	1:A:143:TRP:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:164:GLN:H	1:B:164:GLN:CD	2.19	0.44
1:A:120[A]:MET:CE	1:A:136:LYS:HE2	2.47	0.44
1:A:172:ARG:NH2	1:A:176:HIS:HB3	2.33	0.44
1:B:285:ASN:O	1:B:288:LYS:HD3	2.18	0.43
1:B:253:THR:HG22	1:B:264:ARG:HE	1.83	0.43
2:C:13:DG:H2"	2:C:14:DA:H5'	1.99	0.43
1:B:100:TYR:OH	1:B:261:LEU:HD23	2.18	0.43
2:C:18:DT:O2	3:D:7:DA:H2	2.01	0.43
1:B:100:TYR:OH	1:B:261:LEU:HB3	2.18	0.43
1:A:111:LEU:CD1	6:A:462:HOH:O	2.67	0.42
1:A:111:LEU:HD11	6:A:462:HOH:O	2.18	0.42
1:A:127:LEU:HD11	1:A:286:PHE:CG	2.53	0.42
1:B:100:TYR:CE1	1:B:263:GLY:HA2	2.55	0.42
1:A:133:GLN:NE2	6:A:526:HOH:O	2.52	0.41
1:A:120[B]:MET:HE3	1:A:136:LYS:HE2	2.01	0.41
1:A:145:SER:HB3	6:A:377:HOH:O	2.20	0.41
1:A:127:LEU:O	1:A:128:ASN:C	2.58	0.41
1:B:178:ARG:HH11	1:B:178:ARG:HG3	1.85	0.41
1:B:280:ARG:O	1:B:284:GLU:HG3	2.20	0.41
1:A:153:ARG:CZ	1:A:214:VAL:HG11	2.50	0.41
1:A:111:LEU:HD23	1:A:139:PRO:HG3	2.02	0.41
1:A:159:ILE:HD13	1:A:251:ILE:HD11	2.03	0.41
1:B:162:LYS:CB	1:B:164:GLN:NE2	2.81	0.40
1:B:115:THR:HG22	1:B:116:ALA:N	2.36	0.40

All (3) 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)
2:C:13:DG:P	3:D:12:DC:O3'[2_555]	1.60	0.60
2:C:13:DG:OP2	3:D:12:DC:C3'[2_555]	2.11	0.09
2:C:13:DG:OP2	3:D:12:DC:O3'[2_555]	2.11	0.09

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	195/197 (99%)	193 (99%)	1 (0%)	1 (0%)	29	23
1	B	193/197 (98%)	189 (98%)	3 (2%)	1 (0%)	29	23
All	All	388/394 (98%)	382 (98%)	4 (1%)	2 (0%)	29	23

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	289	LYS
1	B	287	ARG

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	168/174 (97%)	165 (98%)	3 (2%)	59	63
1	B	166/174 (95%)	162 (98%)	4 (2%)	49	51
All	All	334/348 (96%)	327 (98%)	7 (2%)	53	57

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	127	LEU
1	A	153	ARG
1	A	249	LEU
1	B	127	LEU
1	B	153	ARG
1	B	164	GLN
1	B	249	LEU

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

Mol	Chain	Res	Type
1	A	101	GLN
1	A	128	ASN
1	A	211	HIS
1	A	285	ASN
1	B	101	GLN
1	B	103	ASN
1	B	128	ASN
1	B	164	GLN
1	B	211	HIS
1	B	285	ASN

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)

Of 3 ligands modelled in this entry, 2 are monoatomic - leaving 1 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	$\#\|Z\| > 2$
5	FLC	B	585	-	12,12,12	1.41	2 (16%)	17,17,17	1.39	1 (5%)

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
5	FLC	B	585	-	-	0/16/16/16	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	585	FLC	OA2-CAC	-2.60	1.22	1.30
5	B	585	FLC	OG2-CGC	-2.55	1.22	1.30

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	585	FLC	OB2-CBC-CB	4.10	120.17	113.05

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	585	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	194/197 (98%)	0.09	5 (2%) 56 54	21, 30, 50, 78	0
1	B	194/197 (98%)	0.13	8 (4%) 37 36	21, 31, 52, 75	0
2	C	11/11 (100%)	0.33	1 (9%) 9 8	33, 46, 64, 69	0
3	D	12/12 (100%)	0.01	0 100 100	35, 50, 66, 66	0
All	All	411/417 (98%)	0.11	14 (3%) 45 44	21, 32, 60, 78	0

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	100	TYR	7.6
1	B	96	SER	4.0
1	B	97	GLN	3.1
1	A	290	GLU	3.0
1	A	100	TYR	2.8
1	B	286	PHE	2.8
1	B	180	SER	2.7
1	A	116	ALA	2.5
1	A	120[A]	MET	2.4
1	A	291	VAL	2.3
2	C	13	DG	2.2
1	B	235	CYS	2.1
1	B	103	ASN	2.1
1	B	224	SER	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 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
5	FLC	B	585	13/13	0.55	0.41	95,97,99,99	13
4	ZN	B	2	1/1	0.99	0.07	27,27,27,27	0
4	ZN	A	1	1/1	0.99	0.08	26,26,26,26	0

6.5 Other polymers (i)

There are no such residues in this entry.