



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2018 – 09:27 pm GMT

PDB ID : 3Q4L
Title : Structure of a small peptide ligand bound to E.coli DNA sliding clamp
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Ennifar, E.; Guichard, G.; Wagner, J.; Burnouf, D.
Deposited on : 2010-12-23
Resolution : 1.95 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 : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk30967
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30967

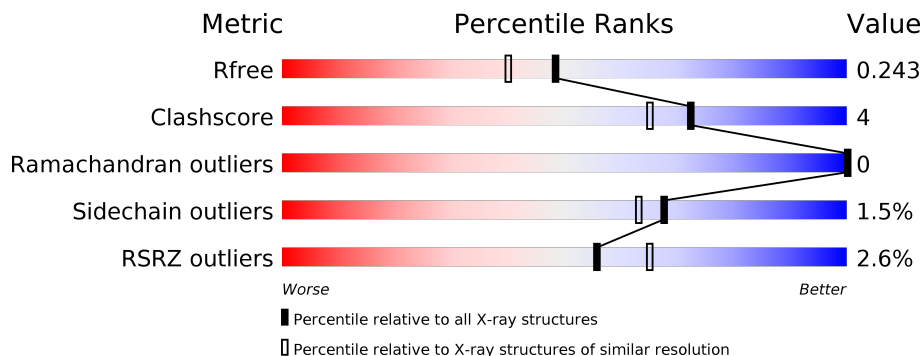
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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}	111664	2220 (1.96-1.96)
Clashscore	122126	2333 (1.96-1.96)
Ramachandran outliers	120053	2314 (1.96-1.96)
Sidechain outliers	120020	2314 (1.96-1.96)
RSRZ outliers	108989	2174 (1.96-1.96)

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. 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	368	<div> <div>3%</div> <div> <div></div> <div>88%</div> <div>10%</div> <div>••</div> </div> </div>
1	B	368	<div> <div>2%</div> <div> <div></div> <div>88%</div> <div>11%</div> <div>•</div> </div> </div>
2	C	6	<div> <div>50%</div> <div>50%</div> </div>
2	D	6	<div> <div>67%</div> <div>17%</div> <div>17%</div> </div>

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 5916 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 DNA polymerase III subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	364	Total	C	N	O	S	0	1	0
			2758	1742	479	518	19			
1	B	363	Total	C	N	O	S	0	2	0
			2755	1741	483	512	19			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	ALA	-	EXPRESSION TAG	UNP P0A988
A	0	ALA	-	EXPRESSION TAG	UNP P0A988
B	-1	ALA	-	EXPRESSION TAG	UNP P0A988
B	0	ALA	-	EXPRESSION TAG	UNP P0A988

- Molecule 2 is a protein called peptide ligand.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	6	Total	C	Cl	N	O	0	0	0
			53	35	2	6	10			
2	D	6	Total	C	Cl	N	O	0	0	0
			53	35	2	6	10			

- Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na).

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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	156	Total	O	0	0
			156	156		

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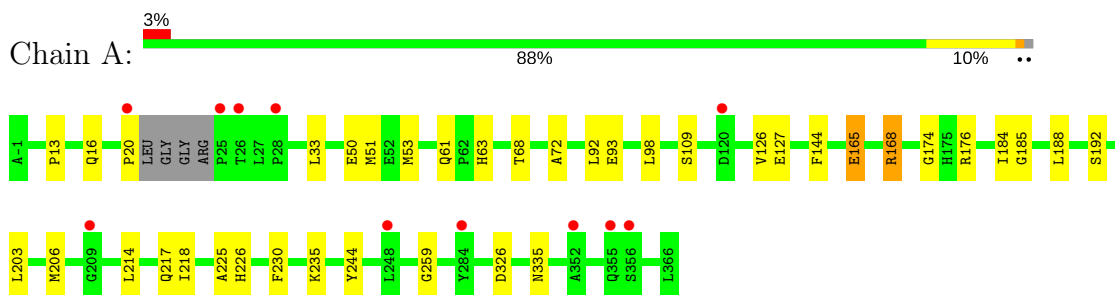
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	134	Total 134	O 134	0	0
4	C	3	Total 3	O 3	0	0
4	D	3	Total 3	O 3	0	0

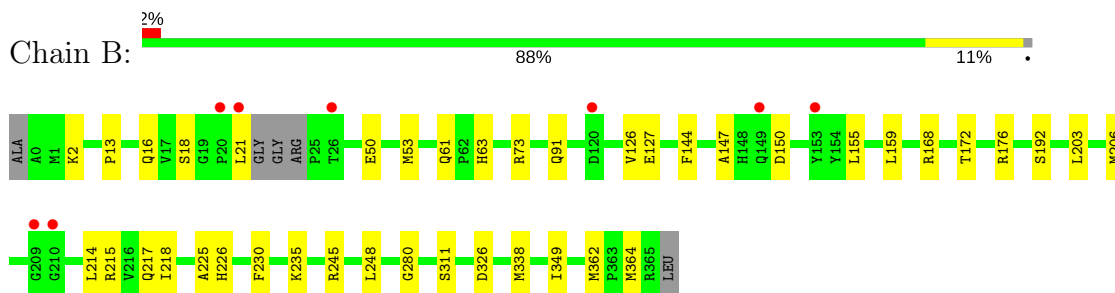
3 Residue-property plots

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: DNA polymerase III subunit beta



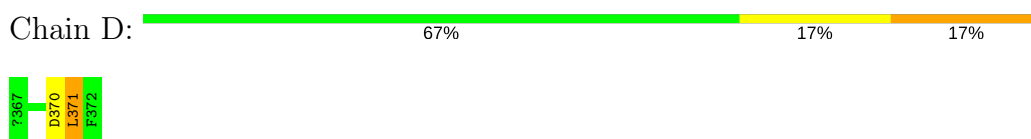
- Molecule 1: DNA polymerase III subunit beta



- Molecule 2: peptide ligand



- Molecule 2: peptide ligand



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	34.84Å 79.57Å 81.64Å 65.28° 75.26° 82.22°	Depositor
Resolution (Å)	39.00 – 1.95 39.19 – 1.95	Depositor EDS
% Data completeness (in resolution range)	(Not available) (39.00-1.95) 96.5 (39.19-1.95)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.13 (at 1.95Å)	Xtriage
Refinement program	BUSTER-TNT BUSTER 2.8.0, BUSTER 2.8.0	Depositor
R, R_{free}	0.199 , 0.232 0.209 , 0.243	Depositor DCC
R_{free} test set	2707 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	31.3	Xtriage
Anisotropy	0.551	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 45.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.019 for -h,-h+1,-h+k	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5916	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.36% 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: ZCL, NA, ALC, ACE

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	0.50	0/2809	0.68	0/3808
1	B	0.48	0/2805	0.66	0/3805
2	C	2.25	1/24 (4.2%)	2.17	1/30 (3.3%)
2	D	2.09	1/24 (4.2%)	2.60	2/30 (6.7%)
All	All	0.53	2/5662 (0.0%)	0.70	3/7673 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	371	LEU	N-CA	7.51	1.61	1.46
2	D	371	LEU	N-CA	5.41	1.57	1.46

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	370	ASP	CB-CG-OD2	-7.32	111.71	118.30
2	D	371	LEU	CB-CG-CD2	7.18	123.21	111.00
2	D	370	ASP	CB-CG-OD2	-5.11	113.70	118.30

There are no chirality outliers.

There are no planarity outliers.

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	2758	0	2721	20	0
1	B	2755	0	2714	21	0
2	C	53	0	46	1	0
2	D	53	0	46	1	0
3	B	1	0	0	0	0
4	A	156	0	0	0	0
4	B	134	0	0	0	0
4	C	3	0	0	0	0
4	D	3	0	0	0	0
All	All	5916	0	5527	41	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 4.

All (41) 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:280:GLY:HA2	1:B:364:MET:HE1	1.46	0.94
1:B:362:MET:HG2	2:D:371:LEU:HD23	1.71	0.72
1:A:184:ILE:HD11	1:A:188:LEU:HD11	1.80	0.63
1:B:16:GLN:HE21	1:B:53:MET:HE2	1.64	0.63
1:A:16:GLN:HE21	1:A:53:MET:HE2	1.64	0.62
1:B:61:GLN:O	1:B:63:HIS:HD2	1.88	0.56
1:A:168:ARG:HD2	1:A:244:TYR:OH	2.07	0.55
1:B:214:LEU:HD11	1:B:225:ALA:HB1	1.88	0.55
1:A:61:GLN:O	1:A:63:HIS:HD2	1.88	0.55
1:B:280:GLY:CA	1:B:364:MET:HE1	2.28	0.54
1:A:214:LEU:HD11	1:A:225:ALA:HB1	1.90	0.53
1:A:127:GLU:HG2	1:A:217:GLN:HG2	1.90	0.52
1:B:215:ARG:HB3	1:B:226[A]:HIS:HB2	1.91	0.52
1:B:159:LEU:HD11	1:B:192:SER:HB3	1.91	0.51
1:B:127:GLU:HG2	1:B:217:GLN:HG2	1.91	0.50
1:A:93:GLU:HB2	1:A:98:LEU:HD13	1.95	0.48
1:B:126:VAL:HG13	1:B:218:ILE:HB	1.95	0.48
1:B:245:ARG:HA	1:B:248:LEU:HD12	1.97	0.47
1:B:50:GLU:HA	1:B:235:LYS:HD2	1.97	0.47
1:A:126:VAL:HG13	1:A:218:ILE:HB	1.96	0.47
1:A:144:PHE:CD1	1:A:326:ASP:HB3	2.50	0.46
1:B:13:PRO:HA	1:B:230:PHE:HE1	1.80	0.46
1:B:144:PHE:CD1	1:B:326:ASP:HB3	2.51	0.46
1:A:174:GLY:HA2	2:C:372:ZCL:CLE1	2.53	0.45
1:A:50:GLU:HA	1:A:235:LYS:HD2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:155:LEU:HD22	1:B:172:THR:HG23	2.00	0.44
1:B:364:MET:HE2	1:B:364:MET:HB2	1.66	0.44
1:B:338:MET:HG2	1:B:349:ILE:HG12	1.98	0.44
1:A:217:GLN:OE1	1:A:226:HIS:HE1	2.02	0.43
1:A:259:GLY:HA2	1:A:335:ASN:HD22	1.82	0.43
1:A:165:GLU:HG2	1:A:185:GLY:H	1.84	0.43
1:A:13:PRO:HA	1:A:230:PHE:HE1	1.84	0.43
1:A:203:LEU:O	1:A:206:MET:HG2	2.19	0.42
1:A:33:LEU:HG	1:A:72:ALA:HB2	2.02	0.42
1:A:165:GLU:O	1:A:165:GLU:HG2	2.20	0.41
1:B:18:SER:O	1:B:21:LEU:HB2	2.20	0.41
1:B:2:LYS:HG3	1:B:91:GLN:HB3	2.01	0.41
1:B:203:LEU:O	1:B:206:MET:HG2	2.20	0.41
1:B:147:ALA:HB1	1:B:150:ASP:HB2	2.03	0.41
1:A:20:PRO:HB3	1:A:51:MET:HG3	2.02	0.40
1:A:68:THR:HG21	1:A:92:LEU:HD21	2.04	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	361/368 (98%)	352 (98%)	9 (2%)	0	100	100
1	B	361/368 (98%)	351 (97%)	10 (3%)	0	100	100
2	C	3/6 (50%)	3 (100%)	0	0	100	100
2	D	3/6 (50%)	3 (100%)	0	0	100	100
All	All	728/748 (97%)	709 (97%)	19 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	290/313 (93%)	285 (98%)	5 (2%)	63	58
1	B	289/313 (92%)	285 (99%)	4 (1%)	69	65
2	C	3/3 (100%)	3 (100%)	0	100	100
2	D	3/3 (100%)	3 (100%)	0	100	100
All	All	585/632 (93%)	576 (98%)	9 (2%)	67	63

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

Mol	Chain	Res	Type
1	A	109	SER
1	A	165	GLU
1	A	168	ARG
1	A	176	ARG
1	A	192	SER
1	B	73	ARG
1	B	168	ARG
1	B	176	ARG
1	B	311	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	61	GLN
1	A	63	HIS
1	A	132	GLN
1	A	186	GLN
1	A	226	HIS
1	A	335	ASN
1	B	61	GLN
1	B	63	HIS
1	B	132	GLN

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Mol	Chain	Res	Type
1	B	221	ASN
2	C	368	GLN
2	D	368	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

4 non-standard protein/DNA/RNA residues 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	ALC	C	369	2	10,11,12	2.09	3 (30%)	11,13,15	2.19	5 (45%)
2	ZCL	C	372	2	10,14,14	1.63	3 (30%)	14,19,19	2.18	6 (42%)
2	ALC	D	369	2	10,11,12	2.44	2 (20%)	11,13,15	2.24	4 (36%)
2	ZCL	D	372	2	10,14,14	1.45	2 (20%)	14,19,19	1.95	5 (35%)

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	ALC	C	369	2	-	0/4/14/16	0/1/1/1
2	ZCL	C	372	2	-	0/4/8/8	0/1/1/1
2	ALC	D	369	2	-	0/4/14/16	0/1/1/1
2	ZCL	D	372	2	-	0/4/8/8	0/1/1/1

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	372	ZCL	CE1-CLE1	-2.83	1.66	1.73
2	D	372	ZCL	CE1-CLE1	-2.72	1.67	1.73
2	C	369	ALC	CD1-CG	2.00	1.58	1.52
2	D	372	ZCL	CD2-CG	2.02	1.43	1.38
2	C	372	ZCL	CD2-CE2	2.07	1.42	1.38
2	C	372	ZCL	CE2-CZ	2.18	1.43	1.38
2	D	369	ALC	CA-N	2.26	1.55	1.47
2	C	369	ALC	CB-CG	2.73	1.57	1.53
2	C	369	ALC	CA-C	4.69	1.56	1.50
2	D	369	ALC	CA-C	6.34	1.58	1.50

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	372	ZCL	CG-CB-CA	-4.68	104.86	114.38
2	D	369	ALC	CG-CB-CA	-3.90	109.23	114.39
2	C	369	ALC	CZ-CE2-CD2	-3.73	103.85	111.42
2	C	369	ALC	CG-CB-CA	-3.19	110.18	114.39
2	D	372	ZCL	CE1-CD1-CG	-3.14	118.33	120.44
2	D	372	ZCL	CE1-CZ-CLZ	-2.99	113.30	120.85
2	C	369	ALC	CE2-CD2-CG	-2.85	106.83	112.20
2	D	369	ALC	CZ-CE2-CD2	-2.80	105.73	111.42
2	D	372	ZCL	CD2-CE2-CZ	-2.51	116.19	120.00
2	C	372	ZCL	CB-CG-CD1	-2.47	116.03	120.41
2	C	372	ZCL	CD2-CE2-CZ	-2.17	116.71	120.00
2	C	372	ZCL	CB-CG-CD2	2.10	125.11	120.91
2	D	372	ZCL	CD1-CE1-CZ	2.20	123.21	120.24
2	C	372	ZCL	CD1-CE1-CZ	2.62	123.78	120.24
2	C	369	ALC	CZ-CE1-CD1	2.96	117.44	111.42
2	C	372	ZCL	CE2-CZ-CLZ	3.00	124.55	118.39
2	D	369	ALC	CD1-CG-CD2	3.08	116.75	109.28
2	C	369	ALC	CD1-CG-CD2	3.23	117.11	109.28
2	D	369	ALC	CZ-CE1-CD1	3.37	118.27	111.42
2	D	372	ZCL	CE2-CZ-CLZ	3.67	125.92	118.39

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
2	C	372	ZCL	1	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is 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 [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	364/368 (98%)	-0.01	11 (3%) 50 59	22, 35, 60, 72	0
1	B	363/368 (98%)	0.07	8 (2%) 62 71	23, 39, 58, 73	0
2	C	3/6 (50%)	0.05	0 100 100	31, 31, 39, 48	0
2	D	3/6 (50%)	0.21	0 100 100	32, 32, 38, 43	0
All	All	733/748 (97%)	0.03	19 (2%) 56 65	22, 37, 59, 73	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	209	GLY	4.2
1	B	20	PRO	4.2
1	A	26	THR	3.5
1	B	21	LEU	3.4
1	B	153	TYR	3.2
1	B	210	GLY	2.8
1	A	284	TYR	2.7
1	A	20	PRO	2.6
1	A	25	PRO	2.6
1	B	149	GLN	2.6
1	A	352	ALA	2.5
1	B	120	ASP	2.5
1	A	120	ASP	2.2
1	B	26	THR	2.2
1	A	209	GLY	2.1
1	A	355	GLN	2.1
1	A	356	SER	2.1
1	A	28	PRO	2.0
1	A	248	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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(\AA^2)	Q<0.9
2	ZCL	D	372	14/14	0.85	0.14	43,52,60,62	0
2	ZCL	C	372	14/14	0.89	0.12	50,57,61,66	0
2	ALC	C	369	11/12	0.95	0.10	32,34,40,41	0
2	ALC	D	369	11/12	0.97	0.08	30,31,33,35	0

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(\AA^2)	Q<0.9
3	NA	B	401	1/1	0.95	0.19	36,36,36,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.