Full wwPDB X-ray Structure Validation Report (i)

Oct 10, 2016 – 04:52 PM EDT

PDB ID	:	5L2W
Title	:	The X-ray co-crystal structure of human CDK2/CyclinE and Dinaciclib.
Authors	:	Chen, P.; Ferre, R.A.; Deihl, W.; Yu, X.; He, Y.-A.
Deposited on	:	2016-08-02
Resolution	:	2.80 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
http://wwpdb.org/validation/2016/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

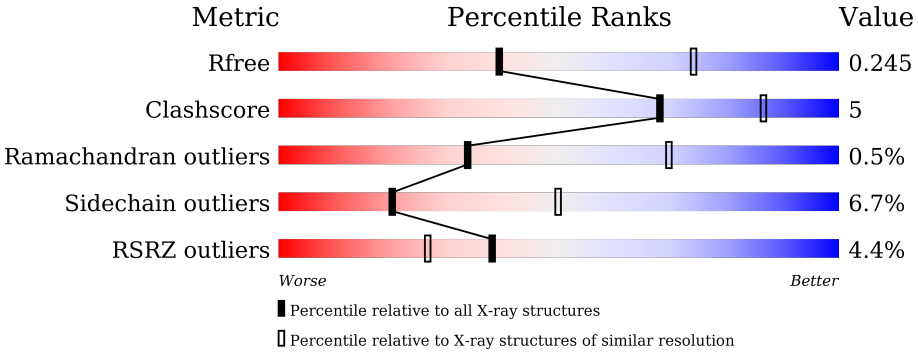
MolProbity	:	4.02b-467
Mogul	:	1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20027939
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	rb-20027939

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 2.80 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}	91344	2393 (2.80-2.80)
Clashscore	102246	2827 (2.80-2.80)
Ramachandran outliers	100387	2782 (2.80-2.80)
Sidechain outliers	100360	2784 (2.80-2.80)
RSRZ outliers	91569	2404 (2.80-2.80)

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 <=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	299	4% 81% 17% •
2	B	307	4% 72% 14% • 12%

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
4	GOL	A	901	-	-	-	X

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 4727 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 Cyclin-dependent kinase 2.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	P	S			
1	A	298	2399	1556	408	426	1	8	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	SER	-	expression tag	UNP P24941

- Molecule 2 is a protein called G1/S-specific cyclin-E1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	270	2218	1444	359	398	17	0	0	0

There are 24 discrepancies between the modelled and reference sequences:

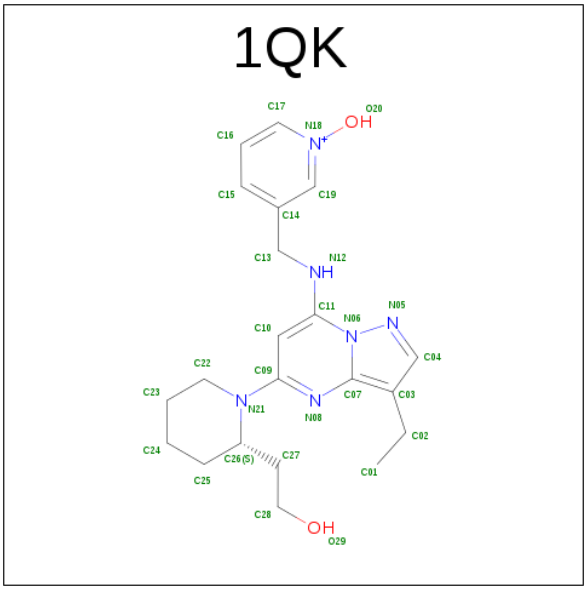
Chain	Residue	Modelled	Actual	Comment	Reference
B	57	MET	-	initiating methionine	UNP P24864
B	58	ALA	-	expression tag	UNP P24864
B	59	SER	-	expression tag	UNP P24864
B	60	HIS	-	expression tag	UNP P24864
B	61	HIS	-	expression tag	UNP P24864
B	62	HIS	-	expression tag	UNP P24864
B	63	HIS	-	expression tag	UNP P24864
B	64	HIS	-	expression tag	UNP P24864
B	65	HIS	-	expression tag	UNP P24864
B	66	ASP	-	expression tag	UNP P24864
B	67	TYR	-	expression tag	UNP P24864
B	68	ASP	-	expression tag	UNP P24864
B	69	GLY	-	expression tag	UNP P24864
B	70	ALA	-	expression tag	UNP P24864
B	71	THR	-	expression tag	UNP P24864

Continued on next page...

Continued from previous page...

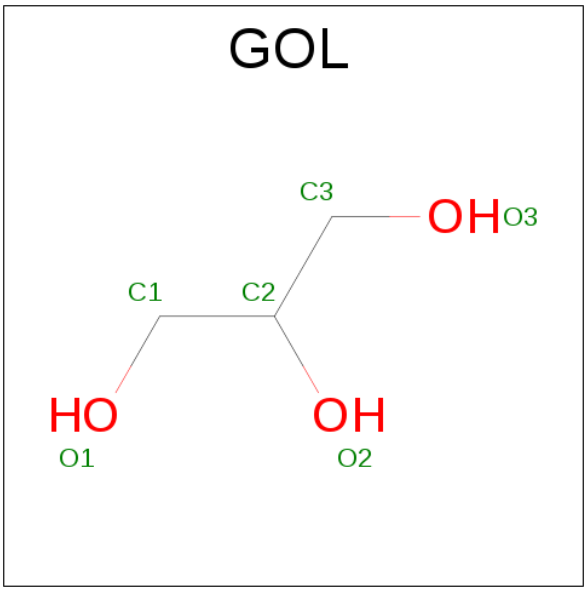
Chain	Residue	Modelled	Actual	Comment	Reference
B	72	THR	-	expression tag	UNP P24864
B	73	GLU	-	expression tag	UNP P24864
B	74	ASN	-	expression tag	UNP P24864
B	75	LEU	-	expression tag	UNP P24864
B	76	TYR	-	expression tag	UNP P24864
B	77	PHE	-	expression tag	UNP P24864
B	78	GLN	-	expression tag	UNP P24864
B	79	GLY	-	expression tag	UNP P24864
B	80	SER	-	expression tag	UNP P24864

- Molecule 3 is 3-[({3-ethyl-5-[(2S)-2-(2-hydroxyethyl)piperidin-1-yl]pyrazolo[1,5-a]pyrimidin-7-yl}amino)methyl]-1-hydroxypyridinium (three-letter code: 1QK) (formula: $C_{21}H_{29}N_6O_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
3	A	1	29	21	6	2	0	0

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
4	A	1	6	3	3	0	0

- Molecule 5 is water.

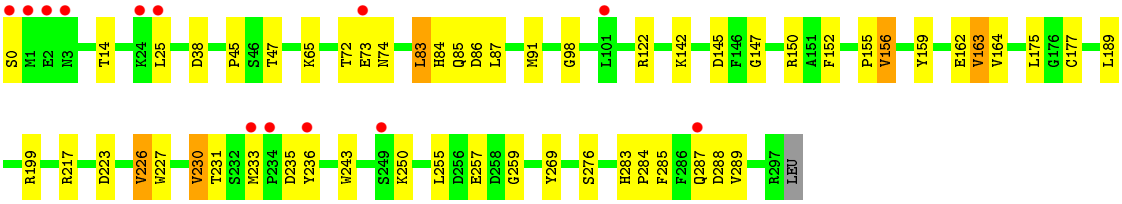
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
5	A	42	42	42	0	0
			Total	O		
5	B	33	33	33	0	0

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 errors 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.

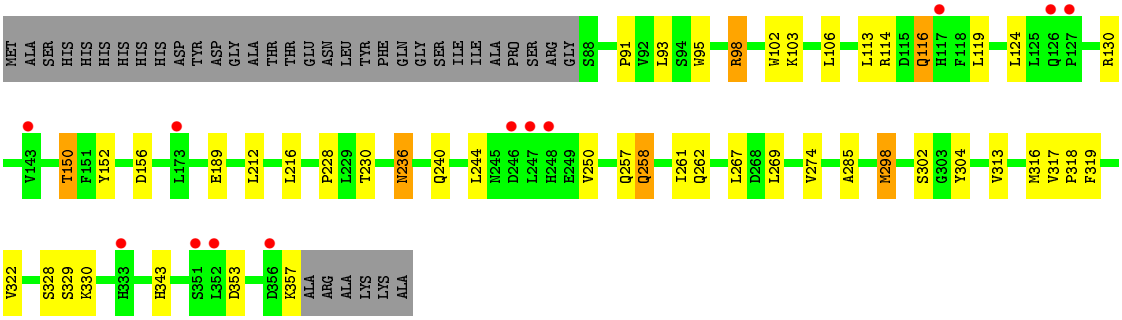
- Molecule 1: Cyclin-dependent kinase 2

Chain A:



- Molecule 2: G1/S-specific cyclin-E1

Chain B:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α, β, γ	100.31Å 100.31Å 151.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.00 – 2.80 44.86 – 2.80	Depositor EDS
% Data completeness (in resolution range)	100.0 (45.00-2.80) 100.0 (44.86-2.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.63 (at 2.81Å)	Xtriage
Refinement program	BUSTER 2.11.4	Depositor
R, R_{free}	0.200 , 0.246 0.202 , 0.245	Depositor DCC
R_{free} test set	962 reflections (5.12%)	DCC
Wilson B-factor (Å^2)	83.1	Xtriage
Anisotropy	0.225	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 77.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	4727	wwPDB-VP
Average B, all atoms (Å^2)	84.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.42% 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: TPO, GOL, 1QK

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	0/2449	0.72	0/3322
2	B	0.52	0/2274	0.69	0/3087
All	All	0.51	0/4723	0.70	0/6409

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	2399	0	2443	25	0
2	B	2218	0	2219	23	0
3	A	29	0	29	0	0
4	A	6	0	8	0	0
5	A	42	0	0	0	0
5	B	33	0	0	0	0
All	All	4727	0	4699	44	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 5.

All (44) 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:155:PRO:HD3	2:B:240:GLN:HB2	1.66	0.78
2:B:261:ILE:HD11	2:B:343:HIS:HA	1.71	0.71
2:B:130:ARG:HD3	2:B:274:VAL:HG22	1.73	0.69
1:A:98:GLY:HA2	1:A:199:ARG:HD3	1.79	0.65
1:A:283:HIS:HD1	1:A:285:PHE:H	1.50	0.59
2:B:318:PRO:O	2:B:322:VAL:HG23	2.03	0.59
2:B:298:MET:HE3	2:B:304:TYR:HB2	1.85	0.58
1:A:276:SER:HB2	2:B:95:TRP:HA	1.85	0.57
2:B:298:MET:CE	2:B:302:SER:OG	2.53	0.56
1:A:163:VAL:HG13	1:A:164:VAL:HG23	1.88	0.55
1:A:155:PRO:HD3	2:B:240:GLN:CB	2.36	0.53
2:B:91:PRO:HG3	2:B:244:LEU:HD21	1.92	0.52
2:B:313:VAL:O	2:B:317:VAL:HG23	2.10	0.51
2:B:93:LEU:HD22	2:B:98:ARG:HA	1.93	0.51
1:A:223:ASP:H	1:A:226:VAL:HG23	1.76	0.51
1:A:45:PRO:HB2	1:A:47:THR:HG22	1.91	0.51
2:B:152:TYR:HB3	2:B:230:THR:HB	1.92	0.51
2:B:298:MET:HE2	2:B:302:SER:OG	2.09	0.50
2:B:150:THR:HG21	2:B:189:GLU:OE2	2.12	0.49
2:B:257:GLN:HB3	2:B:343:HIS:HB3	1.94	0.48
1:A:83:LEU:HD21	1:A:142:LYS:HD2	1.94	0.48
1:A:87:LEU:O	1:A:91:MET:HG3	2.14	0.47
2:B:267:LEU:HD21	2:B:285:ALA:HA	1.97	0.47
1:A:177:CYS:HB2	1:A:233:MET:HE3	1.99	0.45
1:A:14:THR:HG21	1:A:147:GLY:HA3	1.99	0.45
1:A:85:GLN:HG3	1:A:86:ASP:N	2.33	0.44
1:A:227:TRP:CE3	1:A:269:TYR:HB3	2.52	0.44
2:B:258:GLN:NE2	2:B:330:LYS:HD3	2.33	0.44
1:A:255:LEU:HG	1:A:259:GLY:HA3	1.99	0.43
1:A:177:CYS:HB2	1:A:233:MET:CE	2.49	0.43
1:A:155:PRO:HD2	2:B:236:ASN:HD22	1.84	0.43
2:B:156:ASP:OD1	2:B:228:PRO:HG3	2.19	0.43
2:B:316:MET:HA	2:B:319:PHE:HD1	1.83	0.43
1:A:227:TRP:O	1:A:230:VAL:HG22	2.19	0.42
1:A:156:VAL:HG22	1:A:159:TYR:CE2	2.55	0.42
2:B:102:TRP:CD1	2:B:106:LEU:HD11	2.54	0.42
1:A:122:ARG:HA	1:A:152:PHE:CE1	2.54	0.42
1:A:175:LEU:HA	1:A:235:ASP:HB2	2.02	0.42
2:B:262:GLN:HG2	2:B:328:SER:HB3	2.01	0.42
1:A:284:PRO:HA	1:A:287:GLN:HB2	2.03	0.41
1:A:231:THR:HA	1:A:236:TYR:CD1	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:0:SER:HB2	1:A:72:THR:HB	2.03	0.41
2:B:116:GLN:HB2	2:B:116:GLN:HE21	1.80	0.40
1:A:217:ARG:HG2	1:A:243:TRP:CE2	2.57	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	295/299 (99%)	275 (93%)	17 (6%)	3 (1%)	19	52
2	B	268/307 (87%)	255 (95%)	13 (5%)	0	100	100
All	All	563/606 (93%)	530 (94%)	30 (5%)	3 (0%)	34	69

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	73	GLU
1	A	74	ASN
1	A	145	ASP

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.

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	262/263 (100%)	246 (94%)	16 (6%)	23	55
2	B	246/274 (90%)	228 (93%)	18 (7%)	17	44
All	All	508/537 (95%)	474 (93%)	34 (7%)	20	50

All (34) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	25	LEU
1	A	38	ASP
1	A	65	LYS
1	A	83	LEU
1	A	84	HIS
1	A	150	ARG
1	A	156	VAL
1	A	162	GLU
1	A	163	VAL
1	A	189	LEU
1	A	226	VAL
1	A	230	VAL
1	A	250	LYS
1	A	257	GLU
1	A	288	ASP
1	A	289	VAL
2	B	98	ARG
2	B	103	LYS
2	B	113	LEU
2	B	114	ARG
2	B	116	GLN
2	B	119	LEU
2	B	124	LEU
2	B	150	THR
2	B	212	LEU
2	B	216	LEU
2	B	236	ASN
2	B	250	VAL
2	B	258	GLN
2	B	269	LEU
2	B	298	MET
2	B	329	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	353	ASP
2	B	357	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	59	ASN
1	A	265	GLN
1	A	268	HIS
2	B	116	GLN
2	B	236	ASN
2	B	258	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is 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	$\#\|Z\| > 2$
1	TPO	A	160	1	7,10,11	0.88	1 (14%)	10,14,16	1.31	1 (10%)

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
1	TPO	A	160	1	-	0/8/11/13	0/0/0/0

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	160	TPO	CB-CA	2.02	1.57	1.54

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	160	TPO	O-C-CA	-2.37	119.21	125.69

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

2 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	$\#\|Z\| > 2$
3	1QK	A	900	-	25,32,32	1.99	4 (16%)	28,44,44	1.29	3 (10%)
4	GOL	A	901	-	5,5,5	0.13	0	5,5,5	0.15	0

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
3	1QK	A	900	-	-	0/14/25/25	0/4/4/4
4	GOL	A	901	-	-	0/4/4/4	0/0/0/0

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	900	1QK	C15-C14	-2.08	1.34	1.38
3	A	900	1QK	O20-N18	2.35	1.43	1.36
3	A	900	1QK	C19-N18	5.69	1.47	1.35
3	A	900	1QK	C19-C14	6.58	1.51	1.39

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	900	1QK	O20-N18-C19	-3.46	107.73	118.51
3	A	900	1QK	C13-C14-C19	-3.00	116.34	121.14
3	A	900	1QK	O20-N18-C17	-2.55	110.41	118.47

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 (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	297/299 (99%)	0.22	13 (4%)	38	26	54, 76, 114, 131	0
2	B	270/307 (87%)	0.20	12 (4%)	38	26	60, 87, 113, 140	0
All	All	567/606 (93%)	0.21	25 (4%)	38	26	54, 82, 114, 140	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	0	SER	6.5
2	B	246	ASP	5.0
1	A	1	MET	4.7
1	A	24	LYS	4.0
2	B	352	LEU	3.5
2	B	248	HIS	3.3
2	B	247	LEU	3.0
1	A	2	GLU	3.0
1	A	236	TYR	2.9
1	A	287	GLN	2.8
1	A	233	MET	2.7
1	A	3	ASN	2.7
1	A	25	LEU	2.6
1	A	73	GLU	2.5
2	B	117	HIS	2.5
2	B	127	PRO	2.3
2	B	173	LEU	2.2
2	B	351	SER	2.2
2	B	143	VAL	2.2
2	B	333	HIS	2.1
2	B	356	ASP	2.1
1	A	234	PRO	2.0
1	A	101	LEU	2.0
2	B	126	GLN	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	249	SER	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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å^2)	Q<0.9
1	TPO	A	160	11/12	0.97	0.17	-	70,74,79,80	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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å^2)	Q<0.9
4	GOL	A	901	6/6	0.76	0.30	2.42	130,131,131,133	0
3	1QK	A	900	29/29	0.95	0.18	-0.45	56,63,91,100	0

6.5 Other polymers (i)

There are no such residues in this entry.