



Full wwPDB X-ray Structure Validation Report

Feb 1, 2016 – 07:09 PM GMT

PDB ID : 4NZW
Title : Crystal Structure of STK25-MO25 Complex
Authors : Feng, M.; Hao, Q.; Zhou, Z.C.
Deposited on : 2013-12-13
Resolution : 3.58 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  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 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
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) : trunk26865

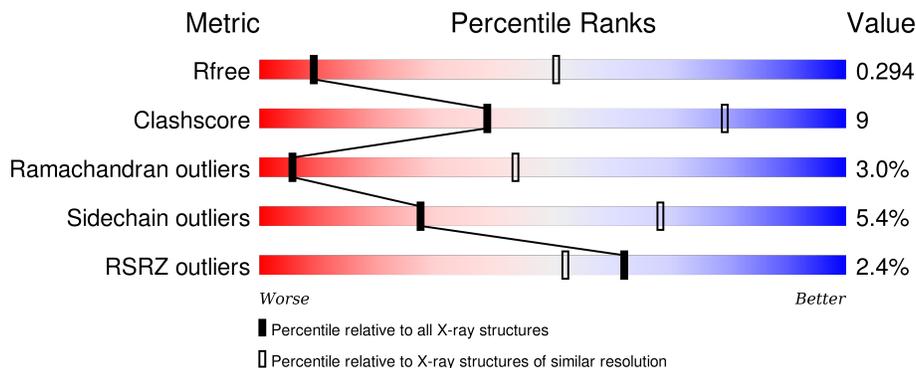
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.58 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	1261 (3.76-3.40)
Clashscore	102246	1026 (3.72-3.44)
Ramachandran outliers	100387	1028 (3.74-3.42)
Sidechain outliers	100360	1028 (3.74-3.42)
RSRZ outliers	91569	1268 (3.76-3.40)

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	331	 3% 80% 12% • 7%
2	B	295	 % 67% 18% 5% 10%

2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 4718 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 Calcium-binding protein 39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	309	2546	1641	425	469	11	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	4	GLY	-	EXPRESSION TAG	UNP Q9Y376
A	5	ALA	-	EXPRESSION TAG	UNP Q9Y376
A	6	MET	-	EXPRESSION TAG	UNP Q9Y376
A	7	ALA	-	EXPRESSION TAG	UNP Q9Y376

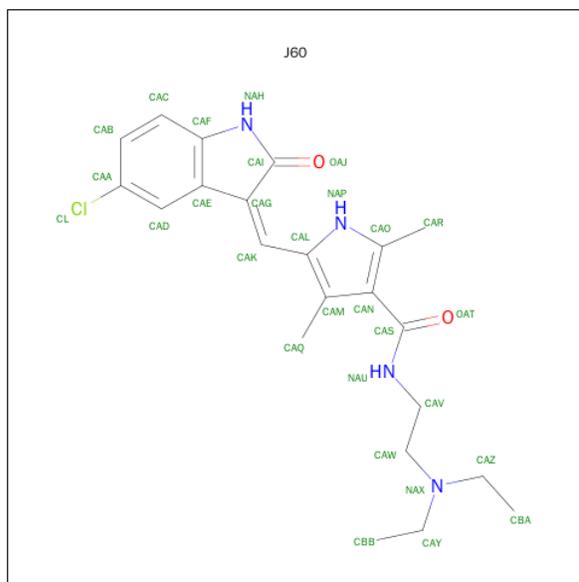
- Molecule 2 is a protein called Serine/threonine-protein kinase 25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	266	2143	1388	357	393	5	0	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-1	GLN	-	EXPRESSION TAG	UNP O00506
B	0	ALA	-	EXPRESSION TAG	UNP O00506
B	158	ALA	ASP	ENGINEERED MUTATION	UNP O00506

- Molecule 3 is 5-[(E)-(5-CHLORO-2-OXO-1,2-DIHYDRO-3H-INDOL-3-YLIDENE)METHYL]-N-[2-(DIETHYLAMINO)ETHYL]-2,4-DIMETHYL-1H-PYRROLE-3-CARBOXAMIDE (three-letter code: J60) (formula: C₂₂H₂₇ClN₄O₂).

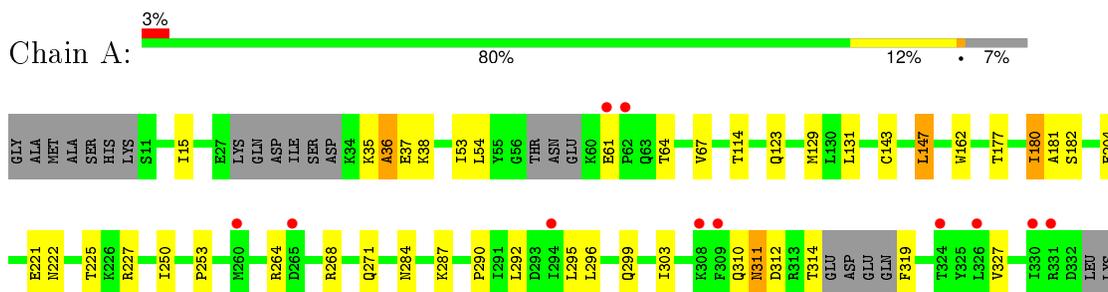


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Cl	N	O		
3	B	1	29	22	1	4	2	1	0

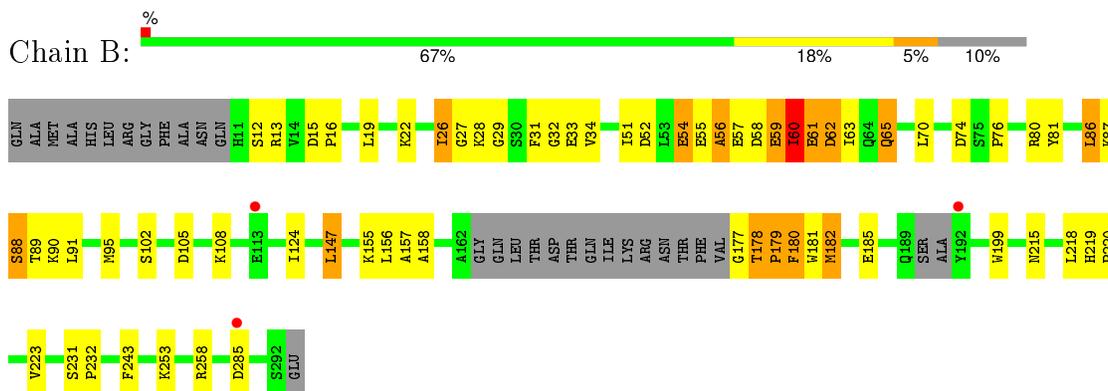
3 Residue-property plots [i](#)

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: Calcium-binding protein 39



- Molecule 2: Serine/threonine-protein kinase 25



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	116.72Å 116.72Å 126.81Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.30 – 3.58 40.30 – 3.58	Depositor EDS
% Data completeness (in resolution range)	99.7 (40.30-3.58) 96.7 (40.30-3.58)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.87 (at 3.57Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.1_1168)	Depositor
R, R_{free}	0.207 , 0.275 0.240 , 0.294	Depositor DCC
R_{free} test set	1065 reflections (11.33%)	DCC
Wilson B-factor (Å ²)	100.7	Xtriage
Anisotropy	0.028	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 41.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Outliers	1 of 10754 reflections (0.009%)	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	4718	wwPDB-VP
Average B, all atoms (Å ²)	66.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.79% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: J60

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	0.21	0/2589	0.37	0/3480
2	B	0.34	0/2192	0.54	2/2959 (0.1%)
All	All	0.28	0/4781	0.45	2/6439 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	B	60	ILE	N-CA-CB	13.34	141.49	110.80
2	B	60	ILE	N-CA-C	-6.00	94.81	111.00

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	2546	0	2595	21	0
2	B	2143	0	2174	65	0
3	B	29	0	27	2	0
All	All	4718	0	4796	86	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 9.

All (86) 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)
2:B:56:ALA:H	2:B:57:GLU:HA	0.99	1.14
2:B:56:ALA:H	2:B:57:GLU:CA	1.58	1.13
2:B:54:GLU:O	2:B:54:GLU:HG2	1.43	1.13
2:B:59:GLU:OE1	2:B:59:GLU:HA	1.46	1.12
2:B:56:ALA:N	2:B:57:GLU:HA	1.58	1.05
1:A:292:LEU:O	1:A:296:LEU:HD13	1.57	1.04
2:B:177:GLY:O	2:B:178:THR:HG23	1.56	1.03
2:B:60:ILE:HG23	2:B:63:ILE:HG12	1.39	1.01
2:B:60:ILE:HG23	2:B:60:ILE:O	1.60	1.00
2:B:55:GLU:O	2:B:56:ALA:HB2	1.69	0.89
2:B:54:GLU:OE2	2:B:89:THR:HG21	1.76	0.86
2:B:54:GLU:HB3	2:B:89:THR:HG23	1.60	0.83
2:B:59:GLU:OE1	2:B:61:GLU:HG2	1.81	0.81
2:B:60:ILE:CG2	2:B:60:ILE:O	2.30	0.80
2:B:55:GLU:O	2:B:56:ALA:CB	2.30	0.79
2:B:177:GLY:O	2:B:178:THR:CG2	2.29	0.78
2:B:59:GLU:OE1	2:B:59:GLU:CA	2.30	0.78
1:A:310:GLN:HA	1:A:311:ASN:HB3	1.68	0.74
2:B:54:GLU:HB3	2:B:89:THR:CG2	2.18	0.73
2:B:180:PHE:CE1	2:B:223:VAL:HG21	2.23	0.73
2:B:56:ALA:N	2:B:57:GLU:CA	2.30	0.72
2:B:182:MET:O	2:B:199:TRP:NE1	2.22	0.72
2:B:60:ILE:O	2:B:63:ILE:HG12	1.91	0.70
2:B:180:PHE:HE1	2:B:223:VAL:HG21	1.56	0.69
2:B:182:MET:O	2:B:199:TRP:CD1	2.47	0.66
2:B:70:LEU:HD21	2:B:158:ALA:HB1	1.78	0.66
1:A:36:ALA:O	1:A:38:LYS:N	2.28	0.66
2:B:179:PRO:O	2:B:181:TRP:N	2.29	0.66
2:B:61:GLU:C	2:B:63:ILE:H	2.01	0.63
2:B:52:ASP:OD1	2:B:56:ALA:HB3	1.98	0.63
1:A:180:ILE:O	1:A:182:SER:N	2.31	0.62
2:B:60:ILE:HG23	2:B:63:ILE:CG1	2.24	0.62
1:A:296:LEU:N	1:A:296:LEU:HD12	2.15	0.62
1:A:264:ARG:O	1:A:271:GLN:NE2	2.32	0.62
2:B:179:PRO:O	2:B:182:MET:HB2	2.00	0.61
1:A:253:PRO:HG3	1:A:290:PRO:HB2	1.81	0.61
2:B:27:GLY:O	2:B:29:GLY:N	2.35	0.59
2:B:51:ILE:HG23	2:B:91:LEU:HB3	1.84	0.59
2:B:177:GLY:O	2:B:178:THR:CB	2.51	0.58
1:A:295:LEU:C	1:A:296:LEU:HD12	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:310:GLN:HA	1:A:311:ASN:CB	2.34	0.57
1:A:314:THR:HG23	1:A:319:PHE:HB2	1.86	0.56
2:B:61:GLU:OE2	2:B:61:GLU:HA	2.05	0.56
2:B:180:PHE:HB2	2:B:181:TRP:CE3	2.41	0.55
2:B:56:ALA:H	2:B:57:GLU:C	2.07	0.54
2:B:185:GLU:OE2	2:B:258:ARG:NH1	2.40	0.54
2:B:54:GLU:O	2:B:55:GLU:HB2	2.07	0.54
2:B:61:GLU:C	2:B:63:ILE:N	2.62	0.53
2:B:74:ASP:OD1	2:B:80:ARG:NH1	2.41	0.53
1:A:296:LEU:CD1	1:A:296:LEU:N	2.71	0.53
1:A:268:ARG:NH2	1:A:312:ASP:OD2	2.42	0.52
2:B:76:PRO:O	2:B:155:LYS:NZ	2.40	0.52
2:B:61:GLU:OE2	2:B:61:GLU:CA	2.58	0.51
2:B:124:ILE:HG23	2:B:156:LEU:HD21	1.91	0.51
2:B:105:ASP:HA	2:B:108:LYS:HE2	1.93	0.50
2:B:61:GLU:O	2:B:63:ILE:N	2.45	0.50
2:B:177:GLY:O	2:B:178:THR:OG1	2.30	0.50
2:B:54:GLU:O	2:B:55:GLU:O	2.30	0.50
2:B:102:SER:HA	2:B:147:LEU:HA	1.94	0.49
2:B:58:ASP:O	2:B:59:GLU:OE1	2.30	0.49
2:B:178:THR:O	2:B:179:PRO:C	2.51	0.49
1:A:54:LEU:HD23	1:A:67:VAL:HG12	1.94	0.49
2:B:179:PRO:HB2	2:B:180:PHE:H	1.48	0.47
1:A:221:GLU:O	2:B:88:SER:OG	2.30	0.47
2:B:54:GLU:CG	2:B:54:GLU:O	2.29	0.47
2:B:81:TYR:HA	2:B:95:MET:HG2	1.97	0.47
1:A:222:ASN:HD21	2:B:86:LEU:HD21	1.80	0.46
2:B:215:ASN:HB3	2:B:218:LEU:HD12	1.99	0.45
1:A:284:ASN:O	1:A:287:LYS:NZ	2.34	0.44
3:B:1000:J60:HBB2	3:B:1000:J60:HAZ1	1.79	0.44
1:A:222:ASN:HB3	1:A:225:THR:HB	2.00	0.44
3:B:1000:J60:HAV1	3:B:1000:J60:HAZ2	1.53	0.44
2:B:177:GLY:C	2:B:178:THR:OG1	2.56	0.44
1:A:143:CYS:O	1:A:147:LEU:HB2	2.18	0.44
2:B:31:PHE:O	2:B:33:GLU:N	2.51	0.43
2:B:179:PRO:O	2:B:182:MET:N	2.51	0.43
1:A:15:ILE:HD12	1:A:53:ILE:HD11	2.01	0.43
2:B:179:PRO:HG2	2:B:220:PRO:HB3	2.00	0.43
2:B:15:ASP:HA	2:B:16:PRO:HD3	1.92	0.42
2:B:62:ASP:O	2:B:65:GLN:HB2	2.20	0.42
2:B:26:ILE:HD11	2:B:34:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:180:PHE:HB2	2:B:181:TRP:CZ3	2.55	0.41
1:A:250:ILE:HD12	1:A:284:ASN:HB2	2.02	0.41
2:B:219:HIS:HA	2:B:220:PRO:HD3	1.95	0.41
1:A:303:ILE:HD12	1:A:327:VAL:HG13	2.02	0.41
2:B:232:PRO:HD3	2:B:253:LYS:HG3	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	301/331 (91%)	280 (93%)	15 (5%)	6 (2%)	9	53
2	B	260/295 (88%)	231 (89%)	18 (7%)	11 (4%)	3	34
All	All	561/626 (90%)	511 (91%)	33 (6%)	17 (3%)	5	43

All (17) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	36	ALA
1	A	180	ILE
1	A	181	ALA
1	A	311	ASN
2	B	28	LYS
2	B	56	ALA
2	B	178	THR
2	B	179	PRO
2	B	180	PHE
1	A	37	GLU
2	B	12	SER
2	B	32	GLY
2	B	62	ASP

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Mol	Chain	Res	Type
2	B	88	SER
2	B	157	ALA
1	A	61	GLU
2	B	90	LYS

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	283/302 (94%)	271 (96%)	12 (4%)	36	75
2	B	233/258 (90%)	217 (93%)	16 (7%)	19	60
All	All	516/560 (92%)	488 (95%)	28 (5%)	27	68

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	35	LYS
1	A	64	THR
1	A	114	THR
1	A	123	GLN
1	A	129	MET
1	A	131	LEU
1	A	147	LEU
1	A	162	TRP
1	A	177	THR
1	A	204	GLU
1	A	227	ARG
1	A	299	GLN
2	B	13	ARG
2	B	19	LEU
2	B	22	LYS
2	B	26	ILE
2	B	54	GLU
2	B	59	GLU
2	B	60	ILE

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Mol	Chain	Res	Type
2	B	61	GLU
2	B	65	GLN
2	B	86	LEU
2	B	87	LYS
2	B	147	LEU
2	B	182	MET
2	B	231	SER
2	B	243	PHE
2	B	285	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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](#)

1 ligand 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	$\# Z > 2$
3	J60	B	1000	-	27,31,31	2.52	7 (25%)	32,44,44	2.59	12 (37%)

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	J60	B	1000	-	-	0/14/30/30	0/3/3/3

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	1000	J60	CAG-CAI	-2.12	1.47	1.50
3	B	1000	J60	CAL-CAK	2.23	1.48	1.40
3	B	1000	J60	CAA-CL	2.48	1.80	1.74
3	B	1000	J60	OAJ-CAI	2.80	1.29	1.23
3	B	1000	J60	CAN-CAM	3.24	1.47	1.40
3	B	1000	J60	CAE-CAF	6.29	1.49	1.41
3	B	1000	J60	CAK-CAG	9.48	1.49	1.34

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	1000	J60	CAC-CAF-CAE	-5.25	116.51	122.19
3	B	1000	J60	CAF-NAH-CAI	-4.24	108.75	111.35
3	B	1000	J60	CAF-CAE-CAG	-3.01	104.67	106.67
3	B	1000	J60	OAJ-CAI-CAG	-2.94	124.08	127.74
3	B	1000	J60	CAE-CAG-CAI	-2.31	103.96	105.32
3	B	1000	J60	CAE-CAG-CAK	-2.23	122.00	132.76
3	B	1000	J60	CAW-CAV-NAU	-2.03	108.02	111.72
3	B	1000	J60	CAM-CAL-NAP	2.17	113.85	110.29
3	B	1000	J60	CAQ-CAM-CAN	2.45	129.88	125.09
3	B	1000	J60	CAC-CAB-CAA	2.75	122.29	119.23
3	B	1000	J60	CAD-CAE-CAF	3.04	122.34	119.43
3	B	1000	J60	CAG-CAI-NAH	9.74	112.31	106.98

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	1000	J60	2	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	309/331 (93%)	0.08	11 (3%) 46 37	14, 53, 116, 162	0
2	B	266/295 (90%)	0.04	3 (1%) 82 74	28, 71, 103, 120	0
All	All	575/626 (91%)	0.06	14 (2%) 62 52	14, 63, 109, 162	0

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	326	LEU	4.1
1	A	330	ILE	3.7
1	A	260	MET	3.3
2	B	192	TYR	2.7
1	A	324	THR	2.6
1	A	62	PRO	2.6
1	A	331	ARG	2.4
2	B	113	GLU	2.4
2	B	285	ASP	2.3
1	A	265	ASP	2.2
1	A	309	PHE	2.2
1	A	61	GLU	2.1
1	A	308	LYS	2.1
1	A	294	ILE	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 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(\AA^2)	Q<0.9
3	J60	B	1000	29/29	0.85	0.34	0.80	57,76,100,106	2

6.5 Other polymers [i](#)

There are no such residues in this entry.