



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 10:28 AM UTC

PDB ID : 3E6B / pdb_00003e6b
Title : OCPA complexed CprK (C200S)
Authors : Levy, C.
Deposited on : 2008-08-15
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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

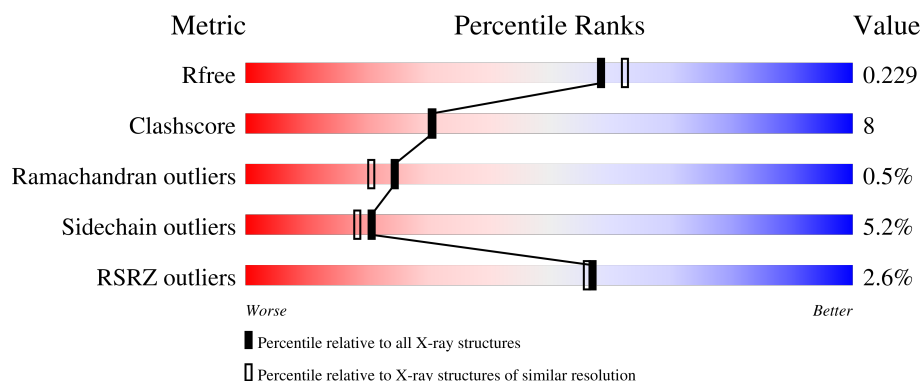
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

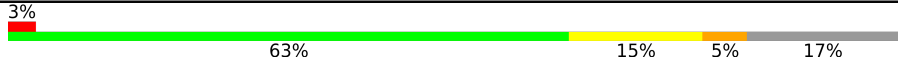
The reported resolution of this entry is 2.01 Å.

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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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 $\leq 5\%$. 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	250	
1	B	250	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3639 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 Cyclic nucleotide-binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	208	Total	C	N	O	S	0	0	0
			1670	1075	277	309	9			
1	B	208	Total	C	N	O	S	0	0	0
			1670	1079	276	306	9			

There are 38 discrepancies between the modelled and reference sequences:

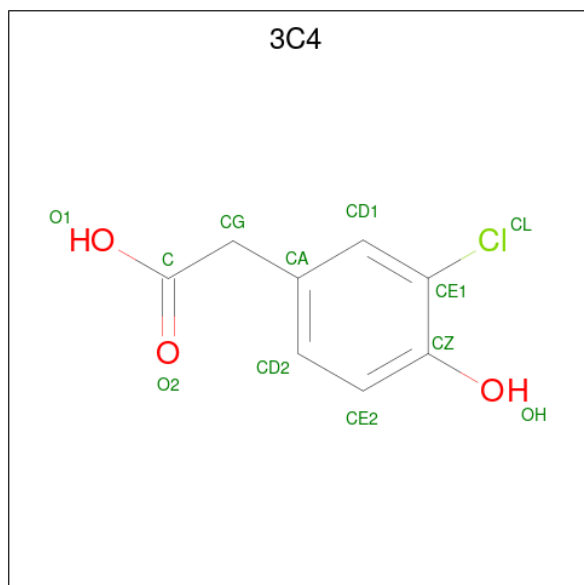
Chain	Residue	Modelled	Actual	Comment	Reference
A	200	SER	CYS	engineered mutation	UNP Q18R04
A	233	SER	-	expression tag	UNP Q18R04
A	234	ASP	-	expression tag	UNP Q18R04
A	235	PRO	-	expression tag	UNP Q18R04
A	236	ASN	-	expression tag	UNP Q18R04
A	237	SER	-	expression tag	UNP Q18R04
A	238	SER	-	expression tag	UNP Q18R04
A	239	SER	-	expression tag	UNP Q18R04
A	240	VAL	-	expression tag	UNP Q18R04
A	241	ASP	-	expression tag	UNP Q18R04
A	242	LYS	-	expression tag	UNP Q18R04
A	243	LEU	-	expression tag	UNP Q18R04
A	244	ALA	-	expression tag	UNP Q18R04
A	245	ALA	-	expression tag	UNP Q18R04
A	246	ALA	-	expression tag	UNP Q18R04
A	247	LEU	-	expression tag	UNP Q18R04
A	248	ASP	-	expression tag	UNP Q18R04
A	249	HIS	-	expression tag	UNP Q18R04
A	250	HIS	-	expression tag	UNP Q18R04
B	200	SER	CYS	engineered mutation	UNP Q18R04
B	233	SER	-	expression tag	UNP Q18R04
B	234	ASP	-	expression tag	UNP Q18R04
B	235	PRO	-	expression tag	UNP Q18R04
B	236	ASN	-	expression tag	UNP Q18R04
B	237	SER	-	expression tag	UNP Q18R04

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Chain	Residue	Modelled	Actual	Comment	Reference
B	238	SER	-	expression tag	UNP Q18R04
B	239	SER	-	expression tag	UNP Q18R04
B	240	VAL	-	expression tag	UNP Q18R04
B	241	ASP	-	expression tag	UNP Q18R04
B	242	LYS	-	expression tag	UNP Q18R04
B	243	LEU	-	expression tag	UNP Q18R04
B	244	ALA	-	expression tag	UNP Q18R04
B	245	ALA	-	expression tag	UNP Q18R04
B	246	ALA	-	expression tag	UNP Q18R04
B	247	LEU	-	expression tag	UNP Q18R04
B	248	ASP	-	expression tag	UNP Q18R04
B	249	HIS	-	expression tag	UNP Q18R04
B	250	HIS	-	expression tag	UNP Q18R04

- Molecule 2 is (3-CHLORO-4-HYDROXYPHENYL)ACETIC ACID (CCD ID: 3C4) (formula: C₈H₇ClO₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	Cl	O	0	0
			12	8	1	3		
2	B	1	Total	C	Cl	O	0	0
			12	8	1	3		

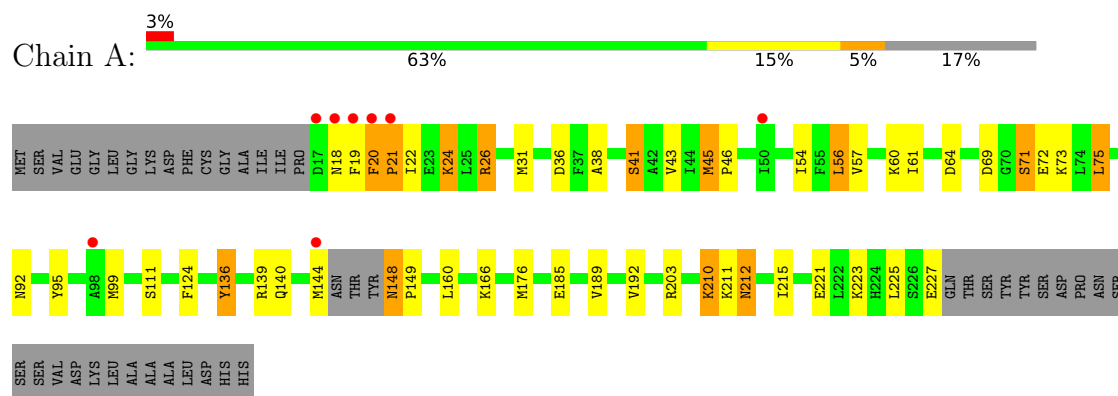
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	125	Total 125	O 125	0	0
3	B	150	Total 150	O 150	0	0

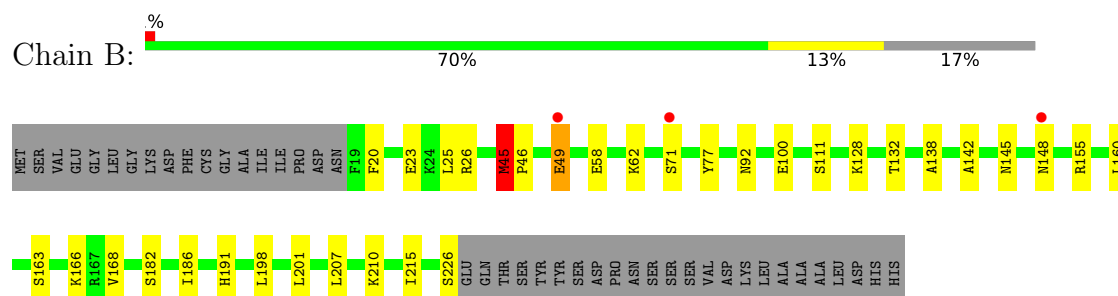
3 Residue-property plots

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: Cyclic nucleotide-binding protein



• Molecule 1: Cyclic nucleotide-binding protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	42.50Å 86.51Å 125.23Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.26 – 2.01 40.26 – 2.01	Depositor EDS
% Data completeness (in resolution range)	98.7 (40.26-2.01) 98.6 (40.26-2.01)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.52 (at 2.01Å)	Xtriage
Refinement program	REFMAC 5.2	Depositor
R, R_{free}	0.189 , 0.232 0.189 , 0.229	Depositor DCC
R_{free} test set	1561 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	27.8	Xtriage
Anisotropy	0.338	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 47.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3639	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.25% 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: 3C4

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	1.15	2/1700 (0.1%)	1.12	4/2288 (0.2%)
1	B	1.23	3/1702 (0.2%)	1.12	3/2293 (0.1%)
All	All	1.19	5/3402 (0.1%)	1.12	7/4581 (0.2%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	168	VAL	CA-CB	6.91	1.61	1.53
1	B	148	ASN	C-O	-6.08	1.17	1.23
1	A	211	LYS	C-O	5.94	1.31	1.24
1	B	186	ILE	CA-CB	5.82	1.61	1.54
1	A	54	ILE	CA-CB	5.12	1.60	1.53

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	124	PHE	N-CA-C	6.01	118.79	111.82
1	A	148	ASN	CA-C-N	5.63	125.30	119.56
1	A	148	ASN	C-N-CA	5.63	125.30	119.56
1	B	100	GLU	CB-CA-C	-5.41	102.96	110.37
1	B	45	MET	N-CA-C	5.30	117.47	110.36
1	B	182	SER	N-CA-C	5.17	116.60	111.07
1	A	136	TYR	N-CA-C	5.05	117.19	111.02

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	1670	0	1697	44	0
1	B	1670	0	1705	20	0
2	A	12	0	6	1	0
2	B	12	0	6	0	0
3	A	125	0	0	8	2
3	B	150	0	0	5	2
All	All	3639	0	3414	56	2

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 8.

All (56) 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:24:LYS:H	1:A:24:LYS:HE2	1.08	1.09
1:A:75:LEU:HD21	1:B:138:ALA:HB1	1.48	0.95
1:A:166:LYS:HE3	3:A:683:HOH:O	1.66	0.94
1:A:185:GLU:OE1	1:B:155:ARG:NH1	2.04	0.89
1:B:191:HIS:HD2	3:B:557:HOH:O	1.56	0.88
1:A:26:ARG:HG2	1:A:26:ARG:HH11	1.41	0.86
1:A:24:LYS:H	1:A:24:LYS:CE	1.93	0.81
1:A:24:LYS:HE2	1:A:24:LYS:N	1.94	0.79
1:A:45:MET:HE2	1:A:46:PRO:HD2	1.64	0.77
1:B:58:GLU:CG	3:B:727:HOH:O	2.32	0.76
1:A:26:ARG:HG2	1:A:26:ARG:NH1	2.03	0.71
1:A:36:ASP:O	3:A:716:HOH:O	2.08	0.70
1:A:20:PHE:O	1:A:21:PRO:C	2.35	0.69
1:A:26:ARG:NH2	1:A:57:VAL:O	2.26	0.68
1:A:56:LEU:HD11	1:A:61:ILE:HD12	1.76	0.66
1:A:60:LYS:HB3	1:A:99:MET:HE3	1.76	0.65
1:B:23:GLU:O	1:B:26:ARG:HG3	1.97	0.64
1:A:46:PRO:HD3	1:A:95:TYR:CD1	2.33	0.62
1:B:166:LYS:HD3	3:B:631:HOH:O	2.02	0.60
1:A:149:PRO:HB2	1:A:189:VAL:HG22	1.84	0.59
1:A:69:ASP:OD1	1:A:71:SER:OG	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:ASP:OD2	1:A:72:GLU:OE2	2.24	0.56
1:A:31:MET:O	1:A:111:SER:HB2	2.07	0.54
1:A:38:ALA:O	1:A:41:SER:OG	2.26	0.54
1:A:203:ARG:HB2	3:A:767:HOH:O	2.10	0.51
1:A:203:ARG:HG3	3:A:767:HOH:O	2.11	0.51
1:A:19:PHE:O	1:A:20:PHE:C	2.54	0.50
1:B:45:MET:HG2	1:B:46:PRO:HD2	1.93	0.50
1:B:210:LYS:HD2	1:B:215:ILE:HD12	1.94	0.50
1:A:24:LYS:HG2	3:A:758:HOH:O	2.12	0.49
1:A:73:LYS:HD3	1:B:142:ALA:O	2.13	0.49
1:B:49:GLU:HG2	3:B:744:HOH:O	2.13	0.48
1:A:144:MET:HE2	3:A:632:HOH:O	2.12	0.48
1:A:212:ASN:OD1	1:A:212:ASN:N	2.42	0.48
1:B:226:SER:O	3:B:701:HOH:O	2.20	0.47
1:A:139:ARG:HD2	1:B:92:ASN:OD1	2.14	0.47
1:A:73:LYS:HE2	1:B:145:ASN:HD21	1.79	0.47
1:A:19:PHE:O	1:A:21:PRO:N	2.48	0.46
1:A:136:TYR:CZ	1:A:140:GLN:NE2	2.84	0.46
1:A:160:LEU:HD21	1:B:160:LEU:HD21	1.98	0.45
1:A:176:MET:HG3	1:B:163:SER:OG	2.17	0.44
1:A:223:LYS:O	1:A:227:GLU:HG2	2.17	0.43
1:A:185:GLU:CD	1:B:155:ARG:NH1	2.74	0.43
1:B:128:LYS:O	1:B:132:THR:HG23	2.17	0.43
1:B:20:PHE:HB2	1:B:132:THR:HG21	2.00	0.43
1:A:18:ASN:O	3:A:699:HOH:O	2.21	0.43
1:A:148:ASN:HA	1:A:149:PRO:HD2	1.75	0.43
1:B:201:LEU:HD23	1:B:201:LEU:HA	1.82	0.42
1:A:92:ASN:HB2	2:A:301:3C4:O2	2.19	0.42
1:A:221:GLU:O	1:A:225:LEU:HG	2.20	0.42
1:A:24:LYS:N	1:A:24:LYS:CD	2.83	0.41
1:B:62:LYS:HG3	1:B:77:TYR:CE1	2.54	0.41
1:A:24:LYS:HD2	3:A:758:HOH:O	2.20	0.41
1:A:26:ARG:HH12	1:A:57:VAL:HA	1.85	0.41
1:A:56:LEU:HD21	1:A:61:ILE:HG13	2.03	0.41
1:A:210:LYS:HD3	1:A:215:ILE:CD1	2.51	0.40

All (2) 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)
3:A:748:HOH:O	3:B:601:HOH:O[4_555]	2.04	0.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:746:HOH:O	3:B:521:HOH:O[2_454]	2.16	0.04

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	204/250 (82%)	188 (92%)	14 (7%)	2 (1%)	12	8
1	B	206/250 (82%)	201 (98%)	5 (2%)	0	100	100
All	All	410/500 (82%)	389 (95%)	19 (5%)	2 (0%)	24	21

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	20	PHE
1	A	21	PRO

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	183/220 (83%)	171 (93%)	12 (7%)	15	12
1	B	183/220 (83%)	176 (96%)	7 (4%)	29	29
All	All	366/440 (83%)	347 (95%)	19 (5%)	21	18

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	22	ILE
1	A	24	LYS
1	A	26	ARG
1	A	41	SER
1	A	43	VAL
1	A	45	MET
1	A	56	LEU
1	A	71	SER
1	A	75	LEU
1	A	192	VAL
1	A	210	LYS
1	A	212	ASN
1	B	25	LEU
1	B	45	MET
1	B	49	GLU
1	B	71	SER
1	B	111	SER
1	B	198	LEU
1	B	207	LEU

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

Mol	Chain	Res	Type
1	A	140	GLN
1	A	180	GLN
1	B	140	GLN
1	B	145	ASN
1	B	180	GLN
1	B	191	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

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
2	3C4	A	301	-	12,12,12	4.19	5 (41%)	16,16,16	2.56	6 (37%)
2	3C4	B	301	-	12,12,12	4.19	5 (41%)	16,16,16	2.58	6 (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
2	3C4	A	301	-	-	2/4/4/4	0/1/1/1
2	3C4	B	301	-	-	2/4/4/4	0/1/1/1

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	301	3C4	CZ-CE1	10.95	1.50	1.39
2	A	301	3C4	CZ-CE1	10.89	1.50	1.39
2	A	301	3C4	CE2-CD2	-6.50	1.28	1.38
2	B	301	3C4	CE2-CD2	-6.47	1.28	1.38
2	A	301	3C4	CE2-CZ	5.32	1.48	1.39
2	B	301	3C4	CE2-CZ	5.26	1.48	1.39
2	B	301	3C4	OH-CZ	3.00	1.42	1.36
2	A	301	3C4	OH-CZ	2.99	1.42	1.36
2	B	301	3C4	CD1-CE1	-2.27	1.35	1.38
2	A	301	3C4	CD1-CE1	-2.25	1.35	1.38

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	301	3C4	CE2-CZ-CE1	-7.20	111.72	118.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	301	3C4	CE2-CZ-CE1	-7.18	111.74	118.49
2	A	301	3C4	O1-C-CG	2.71	124.30	113.98
2	B	301	3C4	O1-C-CG	2.71	124.30	113.98
2	B	301	3C4	OH-CZ-CE2	2.68	126.56	119.36
2	A	301	3C4	OH-CZ-CE2	2.67	126.53	119.36
2	B	301	3C4	O2-C-CG	-2.51	115.38	122.94
2	A	301	3C4	O2-C-CG	-2.50	115.40	122.94
2	B	301	3C4	CD1-CE1-CZ	2.49	122.38	120.92
2	A	301	3C4	CD1-CE1-CZ	2.47	122.36	120.92
2	B	301	3C4	CD2-CA-CD1	2.28	121.69	118.55
2	A	301	3C4	CD2-CA-CD1	2.23	121.63	118.55

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	3C4	O1-C-CG-CA
2	B	301	3C4	O1-C-CG-CA
2	A	301	3C4	O2-C-CG-CA
2	B	301	3C4	O2-C-CG-CA

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	301	3C4	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	208/250 (83%)	0.14	8 (3%) 44 43	15, 32, 54, 72	0
1	B	208/250 (83%)	-0.29	3 (1%) 73 73	13, 27, 42, 56	0
All	All	416/500 (83%)	-0.08	11 (2%) 57 56	13, 29, 49, 72	0

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	19	PHE	4.4
1	A	20	PHE	3.8
1	A	21	PRO	3.5
1	A	144	MET	2.8
1	B	49	GLU	2.4
1	A	18	ASN	2.2
1	A	17	ASP	2.2
1	B	148	ASN	2.2
1	B	71	SER	2.1
1	A	50	ILE	2.1
1	A	98	ALA	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 oligosaccharides 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($\text{\AA}^2$)	Q<0.9
2	3C4	B	301	12/12	0.96	0.06	19,24,26,27	0
2	3C4	A	301	12/12	0.97	0.05	19,24,26,27	0

6.5 Other polymers [i](#)

There are no such residues in this entry.