



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 05:44 PM GMT

PDB ID : 4JC5
Title : Immune activator bound to receptor
Authors : Deimling, T.; Hopfner, K.P.
Deposited on : 2013-02-21
Resolution : 2.75 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

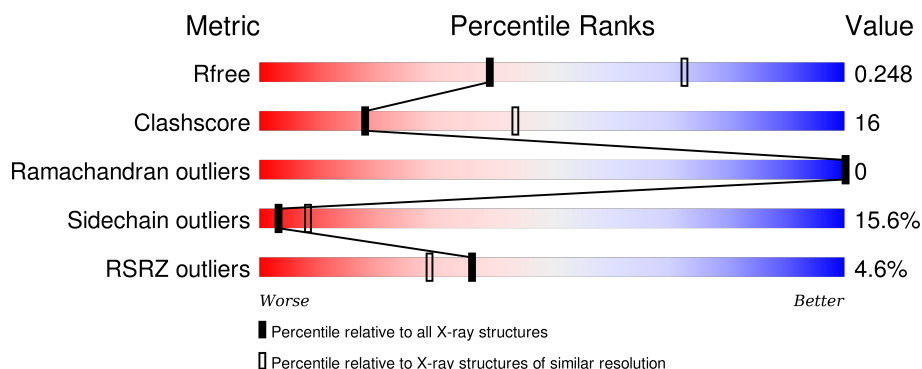
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.75 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	3340 (2.80-2.72)
Clashscore	102246	3829 (2.80-2.72)
Ramachandran outliers	100387	3767 (2.80-2.72)
Sidechain outliers	100360	3770 (2.80-2.72)
RSRZ outliers	91569	3352 (2.80-2.72)

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	200	<div> <div>8%</div> <div>57%</div> <div>34%</div> <div>•</div> <div>7%</div> </div>
1	B	200	<div> <div>8%</div> <div>50%</div> <div>37%</div> <div>5%</div> <div>9%</div> </div>

2 Entry composition [i](#)

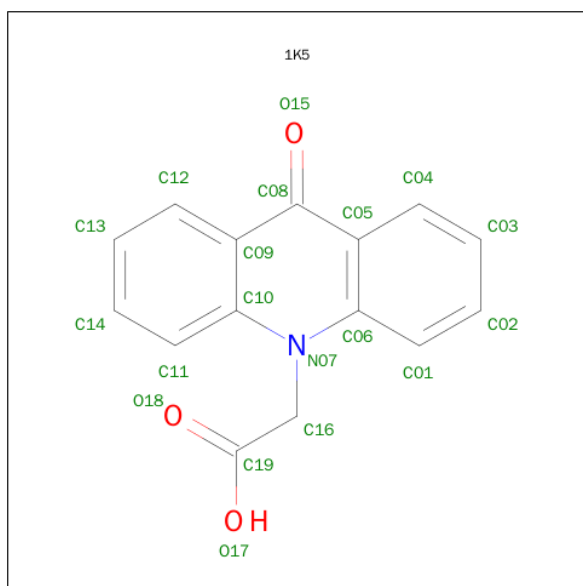
There are 3 unique types of molecules in this entry. The entry contains 3059 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Transmembrane protein 173.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	187	Total	C	N	O	S	83	0	0
			1506	948	271	279	8			
1	B	183	Total	C	N	O	S	129	0	0
			1483	938	267	270	8			

- Molecule 2 is (9-OXOACRIDIN-10(9H)-YL)ACETIC ACID (three-letter code: 1K5) (formula: C₁₅H₁₁NO₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			19	15	1	3		
2	B	1	Total	C	N	O	0	0
			19	15	1	3		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	21	Total 21	O 21	0	0
3	B	11	Total 11	O 11	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	108.54Å 108.54Å 100.83Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	34.38 – 2.75 34.38 – 2.75	Depositor EDS
% Data completeness (in resolution range)	99.3 (34.38-2.75) 99.3 (34.38-2.75)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.23 (at 2.76Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.1_1168)	Depositor
R, R_{free}	0.209 , 0.237 0.216 , 0.248	Depositor DCC
R_{free} test set	573 reflections (5.27%)	DCC
Wilson B-factor (Å ²)	79.9	Xtriage
Anisotropy	0.063	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 74.3	EDS
Estimated twinning fraction	0.042 for h,-h-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Outliers	0 of 11447 reflections	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3059	wwPDB-VP
Average B, all atoms (Å ²)	72.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.89% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 1K5

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	0.39	0/1534	0.56	0/2074
1	B	0.34	0/1509	0.55	0/2036
All	All	0.37	0/3043	0.56	0/4110

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

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	1506	0	1499	43	0
1	B	1483	0	1487	47	0
2	A	19	0	10	2	0
2	B	19	0	10	1	0
3	A	21	0	0	4	0
3	B	11	0	0	1	0
All	All	3059	0	3006	87	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 16.

All (87) 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:207:VAL:HB	1:B:208:PRO:C	2.07	0.75
1:A:302:PRO:HA	1:A:305:ARG:HB3	1.68	0.74
1:B:248:GLU:OE2	1:B:333:ARG:NH2	2.21	0.72
1:A:303:GLU:OE1	1:A:303:GLU:N	2.22	0.71
1:A:177:ARG:NH2	1:A:241:ASN:OD1	2.24	0.70
1:A:177:ARG:NH1	3:A:516:HOH:O	2.24	0.70
1:B:207:VAL:HB	1:B:209:ASP:N	2.08	0.68
1:B:188:MET:HG2	1:B:255:VAL:HG11	1.75	0.67
1:A:265:GLN:HE22	1:B:232:ALA:HB1	1.60	0.66
1:B:294:LEU:HG	1:B:298:LEU:HD11	1.79	0.63
1:A:198:TYR:HB2	1:A:258:LEU:HD12	1.82	0.62
1:B:156:HIS:HA	1:B:293:THR:HG21	1.80	0.62
1:A:185:HIS:NE2	1:A:222:ASP:OD2	2.33	0.61
1:B:329:LEU:HA	1:B:332:ILE:HG22	1.81	0.61
1:A:268:PHE:O	1:A:271:SER:OG	2.20	0.58
1:B:196:ARG:HD3	1:B:309:ARG:HE	1.71	0.56
1:A:279:SER:OG	1:A:282:ASP:OD1	2.24	0.56
1:A:153:ASN:OD1	1:A:156:HIS:ND1	2.32	0.56
1:B:163:TYR:HA	1:B:167:LEU:HB2	1.88	0.55
2:A:401:1K5:H2	1:B:234:ILE:HD11	1.89	0.54
1:B:315:GLU:HB3	1:B:316:PRO:HD2	1.91	0.53
1:A:157:GLY:O	1:A:161:SER:HB3	2.09	0.52
1:B:273:ASP:O	1:B:277:GLY:HA3	2.09	0.52
1:B:157:GLY:O	1:B:161:SER:OG	2.26	0.52
1:A:280:ARG:HG3	1:A:283:ARG:NH2	2.26	0.51
1:A:168:ARG:NE	3:A:518:HOH:O	2.43	0.51
1:A:256:CYS:SG	1:A:258:LEU:HD13	2.51	0.51
1:A:177:ARG:HG3	1:A:225:PRO:HB2	1.93	0.50
1:B:299:GLU:HG2	1:B:305:ARG:HH21	1.76	0.50
1:B:292:ARG:O	1:B:296:GLU:HG3	2.11	0.50
1:A:292:ARG:NH2	3:A:505:HOH:O	2.44	0.50
1:B:210:ASN:ND2	1:B:212:SER:OG	2.45	0.49
1:B:168:ARG:NH1	3:B:507:HOH:O	2.41	0.49
1:B:200:LEU:HD12	1:B:211:LEU:HD21	1.94	0.49
1:B:189:LEU:HD23	1:B:255:VAL:HG13	1.95	0.49
1:A:303:GLU:O	1:A:307:ASN:ND2	2.45	0.48
1:A:263:PRO:HA	2:A:401:1K5:O15	2.14	0.48
1:A:327:GLU:OE2	1:A:330:ARG:NH1	2.46	0.48
1:B:268:PHE:O	1:B:271:SER:OG	2.26	0.48
1:A:264:LEU:HD23	1:A:264:LEU:HA	1.63	0.48
1:B:193:GLY:O	1:B:332:ILE:HG13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:ARG:HG3	1:A:283:ARG:HH22	1.78	0.48
1:A:224:LEU:HG	1:A:225:PRO:HD2	1.96	0.47
1:A:302:PRO:O	1:A:306:ASN:N	2.41	0.47
1:A:193:GLY:HA2	1:A:198:TYR:OH	2.14	0.46
1:B:193:GLY:HA2	1:B:198:TYR:OH	2.16	0.46
1:B:246:ILE:HD11	1:B:256:CYS:SG	2.56	0.46
1:A:205:CYS:HB2	1:A:280:ARG:HD2	1.97	0.46
1:B:329:LEU:HA	1:B:332:ILE:CG2	2.46	0.45
1:A:153:ASN:HA	1:B:153:ASN:HA	1.98	0.45
1:B:224:LEU:HA	1:B:224:LEU:HD23	1.88	0.45
1:B:210:ASN:O	1:B:214:VAL:N	2.50	0.45
1:A:204:ASP:OD1	1:A:205:CYS:N	2.49	0.45
1:B:192:ALA:HA	1:B:196:ARG:HH12	1.82	0.45
1:B:331:HIS:O	1:B:335:GLU:HG2	2.18	0.44
1:B:207:VAL:HB	1:B:208:PRO:CA	2.47	0.44
1:B:156:HIS:O	1:B:160:TRP:HD1	2.01	0.43
1:A:234:ILE:HG22	1:A:237:ARG:HB2	2.00	0.43
1:A:188:MET:HE2	1:A:188:MET:HB3	1.87	0.43
1:A:188:MET:O	1:A:190:SER:N	2.51	0.43
1:B:227:GLN:OE1	1:B:228:ASN:N	2.52	0.43
1:A:296:GLU:O	1:A:299:GLU:HG2	2.18	0.43
1:A:161:SER:O	1:A:165:GLY:N	2.49	0.43
1:B:180:MET:O	1:B:184:LEU:N	2.47	0.43
1:B:173:GLY:O	1:B:177:ARG:HG3	2.18	0.43
1:B:263:PRO:HA	2:B:401:1K5:O15	2.18	0.43
1:B:264:LEU:HA	1:B:264:LEU:HD23	1.87	0.42
1:B:160:TRP:O	1:B:164:ILE:HG12	2.20	0.42
1:B:217:ASN:HA	1:B:247:LEU:HB2	2.00	0.42
1:B:324:LEU:HD12	1:B:324:LEU:HA	1.77	0.42
1:A:211:LEU:HA	1:A:211:LEU:HD12	1.69	0.42
1:A:246:ILE:HG21	1:A:329:LEU:HG	2.01	0.42
1:B:155:ALA:CB	1:B:289:LEU:HB3	2.51	0.41
1:A:154:VAL:HG13	1:A:286:GLN:OE1	2.20	0.41
1:A:179:ARG:NH2	3:A:501:HOH:O	2.32	0.41
1:B:209:ASP:HB3	1:B:214:VAL:HG23	2.01	0.41
1:B:215:ASP:OD1	1:B:217:ASN:N	2.51	0.41
1:A:302:PRO:CA	1:A:305:ARG:HB3	2.45	0.41
1:A:170:ILE:HD12	1:A:170:ILE:HA	1.83	0.41
1:A:168:ARG:CZ	1:A:168:ARG:HB3	2.49	0.41
1:B:200:LEU:HD21	1:B:258:LEU:HD11	2.03	0.41
1:A:189:LEU:HD12	1:A:194:SER:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:198:TYR:CD1	1:A:309:ARG:HB2	2.56	0.40
1:B:230:ASP:HA	1:B:235:LYS:HA	2.03	0.40
1:B:163:TYR:HD1	1:B:167:LEU:HB2	1.86	0.40
1:A:310:LEU:HA	1:A:310:LEU:HD23	1.83	0.40
1:A:233:GLY:H	1:B:265:GLN:HE22	1.69	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	185/200 (92%)	177 (96%)	8 (4%)	0	100	100
1	B	177/200 (88%)	166 (94%)	11 (6%)	0	100	100
All	All	362/400 (90%)	343 (95%)	19 (5%)	0	100	100

There are no Ramachandran outliers to report.

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	165/177 (93%)	139 (84%)	26 (16%)	3	8
1	B	162/177 (92%)	137 (85%)	25 (15%)	3	9
All	All	327/354 (92%)	276 (84%)	51 (16%)	3	8

All (51) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	161	SER
1	A	168	ARG
1	A	174	LEU
1	A	177	ARG
1	A	184	LEU
1	A	196	ARG
1	A	197	LEU
1	A	203	LEU
1	A	205	CYS
1	A	211	LEU
1	A	221	ARG
1	A	222	ASP
1	A	223	MET
1	A	226	GLN
1	A	227	GLN
1	A	230	ASP
1	A	231	ARG
1	A	236	ASN
1	A	267	LEU
1	A	278	PHE
1	A	284	LEU
1	A	312	VAL
1	A	314	GLN
1	A	318	ASP
1	A	335	GLU
1	A	337	LYS
1	B	151	LYS
1	B	154	VAL
1	B	161	SER
1	B	179	ARG
1	B	180	MET
1	B	184	LEU
1	B	209	ASP
1	B	221	ARG
1	B	222	ASP
1	B	230	ASP
1	B	231	ARG
1	B	240	SER
1	B	257	ILE
1	B	278	PHE
1	B	298	LEU
1	B	300	ASP

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Mol	Chain	Res	Type
1	B	308	CYS
1	B	309	ARG
1	B	312	VAL
1	B	317	THR
1	B	327	GLU
1	B	333	ARG
1	B	334	GLN
1	B	335	GLU
1	B	336	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	251	GLN
1	B	210	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 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
2	1K5	A	401	-	17,21,21	2.72	5 (29%)	20,30,30	3.32	9 (45%)
2	1K5	B	401	-	17,21,21	2.62	6 (35%)	20,30,30	2.58	5 (25%)

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	1K5	A	401	-	-	0/2/4/4	0/3/3/3
2	1K5	B	401	-	-	0/2/4/4	0/3/3/3

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	1K5	C08-C09	-6.78	1.31	1.41
2	A	401	1K5	C08-C05	-6.35	1.32	1.41
2	B	401	1K5	C08-C05	-6.11	1.32	1.41
2	B	401	1K5	C08-C09	-6.05	1.32	1.41
2	B	401	1K5	C05-C06	-2.84	1.39	1.41
2	B	401	1K5	C09-C10	-2.56	1.39	1.41
2	A	401	1K5	C05-C06	-2.03	1.39	1.41
2	B	401	1K5	C10-N07	2.72	1.42	1.38
2	A	401	1K5	C10-N07	2.90	1.42	1.38
2	B	401	1K5	C06-N07	3.25	1.43	1.38
2	A	401	1K5	C06-N07	3.53	1.43	1.38

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	1K5	C12-C09-C08	-2.78	116.05	119.12
2	A	401	1K5	C01-C06-C05	-2.57	116.34	119.97
2	A	401	1K5	C19-C16-N07	-2.24	111.09	114.15
2	A	401	1K5	C08-C05-C06	2.01	120.50	118.54
2	B	401	1K5	C08-C09-C10	2.31	120.79	118.54
2	A	401	1K5	C16-N07-C10	2.37	123.73	120.13
2	B	401	1K5	C08-C05-C06	2.68	121.15	118.54
2	A	401	1K5	C16-N07-C06	3.08	124.81	120.13
2	B	401	1K5	C16-N07-C06	3.36	125.24	120.13
2	A	401	1K5	C08-C09-C10	3.54	121.99	118.54
2	B	401	1K5	C12-C09-C10	6.43	121.02	118.06
2	B	401	1K5	C04-C05-C06	7.11	121.33	118.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	1K5	C12-C09-C10	8.48	121.96	118.06
2	A	401	1K5	C04-C05-C06	9.34	122.36	118.06

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	1K5	2	0
2	B	401	1K5	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 ⓘ

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	187/200 (93%)	-0.15	2 (1%) 82 78	26, 55, 107, 133	25 (13%)
1	B	183/200 (91%)	0.26	15 (8%) 14 9	38, 83, 131, 148	36 (19%)
All	All	370/400 (92%)	0.05	17 (4%) 36 29	26, 69, 124, 148	61 (16%)

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	232	ALA	4.8
1	A	231	ARG	3.9
1	B	222	ASP	3.8
1	B	181	PHE	3.3
1	B	223	MET	3.1
1	B	238	VAL	2.8
1	B	249	ASN	2.8
1	B	322	PHE	2.7
1	B	236	ASN	2.5
1	B	248	GLU	2.4
1	B	232	ALA	2.3
1	B	333	ARG	2.3
1	B	250	GLY	2.3
1	B	329	LEU	2.2
1	B	247	LEU	2.1
1	B	168	ARG	2.1
1	B	278	PHE	2.1

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

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
2	1K5	B	401	19/19	0.94	0.21	1.19	31,41,56,57	0
2	1K5	A	401	19/19	0.96	0.16	-0.73	27,35,42,44	0

6.5 Other polymers [i](#)

There are no such residues in this entry.