Cell. Mol. Life Sci. (2009) 66:3535–3536
DOI 10.1007/s00018-009-0128-x

Cellular and Molecular Life Sciences

ERRATUM

Protein kinase CK2: from structures to insights

K. Niefind · J. Raaf · O.-G. Issinger

Published online: 20 August 2009

Erratum to: Cell. Mol. Life Sci. 66 (2009) 1800–1816
DOI 10.1007/s00018-009-9149-8

Due to errors in the editorial process most references in Table 1 of K. Niefind, J. Raaf and O.-G. Issinger, Cell. Mol. Life Sci. 66 (2009), 1800–1816 (DOI 10.1007/s00018-009-9149-8), are wrong. The authors and the publishers apologize for any inconvenience. The correct Table 1 reads as follows:

Table 1 CK2 structures available at the Protein Data Bank [18] ranked according to resolution

Protein construct/ designation in the text	Species	Main ligands	Resol. (Å)	Exp. data available?	PDB code	Ref.
*hs*CK2α^{1-335}	*H. sapiens*	3-Methyl-1,6,8-trihydroxyanthraquinone (emodin)	1.50	Yes	3BQC	[34]
*hs*CK2α^{1-335}	*H. sapiens*	5,6-Dichloro-1-β-D-ribofuranosyl-1H-benzimidazole (DRB)	1.56	Yes	3H30	[30]
*hs*CK2α^{1-335}	*H. sapiens*	Adenosine 5′-(β,γ-imido)triphosphate (AMPPNP), sulphate ions	1.61	Yes	2PVR	[35]
*hs*CK2α^{1-335}V66A/M163L	*H. sapiens*	Adenosine 5′-(β,γ-imido)triphosphate (AMPPNP), glycerol	1.66	Yes	3BW5	[30, 33]
*zm*CK2α	*Zea mays*	[5-Oxo-5,6-dihydroindolo-(1,2-a)quinazolin-7-yl]-acetic acid	1.68	No	1OM1	[36]
*zm*CK2α	*Zea mays*	5,8-Diamino-1,4-dihydroxyanthrachinon	1.70	No	1M2R	[37]
*zm*CK2α	*Zea mays*	2-(Cyclohexylmethylamino)-4-(phenylamino)pyrazolo[1,5-a] [1,3,5] triazine-8-carbonitrile	1.70	No	2PVJ	[25]

The online version of the original article can be found under doi:10.1007/s00018-009-9149-8.

K. Niefind (✉) · J. Raaf
Universität zu Köln, Department für Chemie,
Institut für Biochemie, Zülpicher Straße 47,
50674 Köln, Germany
e-mail: Karsten.Niefind@uni-koeln.de

O.-G. Issinger
Syddansk Universitet,
Institut for Biokemi og Molekylær Biologi,
Campusvej 55, 5230 Odense, Denmark

Table 1 continued

Protein construct/ designation in the text	Species	Main ligands	Resol. (Å)	Exp. data available?	PDB code	Ref.
*hs*CK2β^{1-182}	*H. sapiens*	–	1.74	No	1QF8	[7]
*zm*CK2α	*Zea mays*	4,5,6,7-Tetrabromo-*N*,*N*-dimethyl-1H-benzimidazol-2-amine	1.77	No	1ZOE	[38]
*zm*CK2α	*Zea mays*	1,8-Dihydroxy-4-nitro-xanthen-9-one	1.79	No	1M2Q	[37]
*zm*CK2α	*Zea mays*	4,5,6,7-Tetrabromo-benzimidazole	1.81	No	2OXY	[39]
*zm*CK2α	*Zea mays*	5,6,7,8-Tetrabromo-1-methyl-2,3-dihydro-1H-imidazo[1,2-a] benzimidazole	1.81	No	1ZOH	[38]
*zm*CK2α	*Zea mays*	3,8-Dibromo-7-hydroxy-4-mmethyl-2H-chromen-2-one	1.85	Yes	2QC6	[40]
*zm*CK2α	*Zea mays*	Probably benzamidine	1.86	Yes	1LPU	[33]
*zm*CK2α	*Zea mays*	Adenosine 5′-(β,γ-imido)triphosphate (AMPPNP)	1.86	Yes	1LP4	[33]
*zm*CK2α	*Zea mays*	2-(4-Ethylpiperazin-1-yl)-4-(phenylamino) pyrazolo[1,5-a] [1,3,5] triazine-8-carbonitrile	1.90	No	2PVL	[25]
*zm*CK2α	*Zea mays*	2-(4-Chlorobenzylamino)-4-(phenylamino) pyrazolo[1,5-a] [1,3,5]triazine-8-carbonitrile	1.90	No	2PVK	[25]
*hs*CK2α^{1-335}	*H. sapiens*	3-Methyl-1,6,8-trihydroxyanthraquinone (emodin)	1.95	Yes	3C13	[34]
*zm*CK2α	*Zea mays*	Probably benzamidine	2.00	Yes	1LR4	[33]
*zm*CK2α	*Zea mays*	1,8-Dihydroxy-4-nitro-anthrachinon	2.00	No	1M2P	[37]
*zm*CK2α	*Zea mays*	*N*-(3-(8-Cyano-4-(phenylamino)pyrazolo[1,5-a][1,3,5]triazin-2-ylamino) phenyl)acetamide	2.00	No	2PVN	[25]
*zm*CK2α	*Zea mays*	4-(2-(1H-Imidazol-4-yl)ethylamino)-2-(phenylamino) pyrazolo[1,5-a][1,3,5]triazine-8-carbonitrile	2.00	No	2PVM	[25]
*zm*CK2α	*Zea mays*	–	2.18	No	1JAM	[41]
*zm*CK2α	*Zea mays*	4,5,6,7-Tetrabromo-2-benzotriazole	2.19	No	1J91	[41]
*zm*CK2α	*Zea mays*	Adenosine 5′-(β,γ-imido)triphosphate (AMPPNP)	2.20	Yes	1DAW	[32]
*zm*CK2α	*Zea mays*	Guanosine 5′-(β,γ-imido)triphosphate (GMPPNP)	2.20	Yes	1DAY	[32]
*zm*CK2α	*Zea mays*	*N*,*N*′-Diphenylpyrazolo[1,5-a][1,3,5]triazine-2,4-diamine	2.20	No	2PVH	[25]
*hs*CK2α^{1-335}	*H.sapiens*	Glycerol	2.30	Yes	3FWQ	[42]
*zm*CK2α	*Zea mays*	4,5,6,7-Tetrabromo-1H,3H-benzimidazole-2-one	2.30	No	1OXD	[39]
*zm*CK2α	*Zea mays*	4,5,6,7-Tetrabromo-1H,3H-benzimidazole-2-thion	2.30	No	2OXX	[39]
*zm*CK2α	*Zea mays*	4,5,6,7-Tetrabromo-2-(methylsulphanyl)-1H-benzimidazole	2.30	No	1ZOG	[38]
*hs*CK2α^{1-329}E27A/K76N*	*H. sapiens*	–	2.40	Yes	1NA7	[43]
*hs*CK2α^{1-335}	*H. sapiens*	Adenosine 5′-(β,γ-imido)triphosphate (AMPPNP)	2.50	Yes	1PJK	[44]
*zm*CK2α	*Zea mays*	3-Methyl-1,6,8-trihydroxyanthraquinone	2.63	No	1F0Q	[45]
*hs*CK2β^{1-193}	*H. sapiens*	–	2.80	Yes	3EED	[27]
*xl*CK2β^{1-178}	*X. laevis*	p21WAF1 peptide	2.89	Yes	1RQF	[46]
*rn*CK2α^{1-335}	*R. norvegicus*	Sulphate ions	3.00	Yes	2R7I	–
(*hs*CK2α^{1-337})$_2$/(*hs*CK2β)$_2$*	*H. sapiens*	Adenosine 5′-(β,γ-imido)triphosphate (AMPPNP)	3.10	Yes	1JWH	[8]
*rn*CK2β^{1-193*}	*R. norvegicus*	–	3.10	Yes	2R6M	–
*zm*CK2α	*Zea mays*	Adenosine monophosphate (AMP)	3.15	No	1DS5	[16]

*In these cases the status of the respective C-terminus is unclear. The indicated C-termini were not introduced genetically but presumably formed by spontaneous degradation