

Recombinant Zea Mays CK2 Protein Kinase Alpha 2

Cat. No. cka2-204Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Zea Mays Casein Kinase 2 alpha is a non-glycosylated polypeptide having a molecular mass of 39.2 kDa. Casein Kinase 2 is purified by proprietary chromatographic techniques. It is produced in <i>E.Coli</i> .
Species	Zea Mays
Source	E.coli
Description	The Casein kinase 2 (EC2.7.11.1) is a serine/threonine-selective protein kinase that is a tetramer of two alpha subunits and two beta subunits. The alpha subunits have the catalytic kinase domain. Casein kinase 2 has been implicated in cell cycle control, DNA repair, regulation of the circadian rhythm and other cellular processes. Casein kinase 2 activity has been reported to be activated following Wnt signaling pathway activation. A Pertussis toxin-sensitive G protein and Dishevelled appear to be an intermediary between Wnt-mediated activation of the Frizzled receptor and activation of casein kinase 2.
Formulation	CK2a is supplied in 50% glycerol.
Purity	Greater than 99% as determined by SDS-PAGE.
Unit Definition	No protease activity detectable, specific activity > 1U/mg (1U = 1μmol/min at 37°C) using the synthetic peptide RRRDDDSDDD.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for

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longer periods of time. Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name	cka2 CK2 protein kinase alpha 2 [Zea mays]
Synonyms	cka2; CK2 protein kinase alpha 2; CK2; CK2 alpha subunit; PCO082342; PCO082342_ov; casein kinase II alpha subunit; casein kinase2 subunit alpha; casein protein kinase subunit alpha; ck2a2
Gene ID	542460
mRNA Refseq	NM_001112016
Protein Refseq	NP_001105486

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