

Active Recombinant Zea Mays Casein Kinase II Alpha Subunit

Cat. No. ACK2-168Z Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Zea Mays
Source	E.coli
Description	Casein kinase 2 (CK2) is a ubiquitous pleiotropic proliferation-associated serine/threonine protein kinase. Similar to protein kinase A, CK2 is a tetramer made up from two different subunits $\alpha_2\beta_2$. The catalytic α-subunit corresponds to the C-subunit of PKA, the non-catalytic β-subunit is unique and differs from the R-subunit of PKA in all known features. The recombinant protein kinase CK2α from Zea mays was expressed in E.coli as a non fusion protein and purified by several chromatography steps (phosphocellulose, Superose 6, Resource Q). It is less prone to degradation than the human counterpart. The α-subunit is constitutively active and suitable for labeling casein kinase 2 α substrates. It is shown to be extremely salt sensitive, the highest activity is shown without salt. MW=39.2kDa.
Form	Supplied in 25mM Tris-HCl pH8.5, 500mM NaCl, 1mM DTT, 500 μ M PMSF and 50% glycerol.
Activity	>1U/mg (1 Unit is defined as 1 micromole phosphate transferred to synthetic peptide per min at 30°C).
Purity	>99% by SDS-PAGE.

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Usage For in vitro use only.

Storage Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name LOC542637 casein kinase II alpha subunit [Zea mays]

Synonyms ACK2; LOC542637; casein kinase II alpha subunit; Casein kinase II subunit alpha

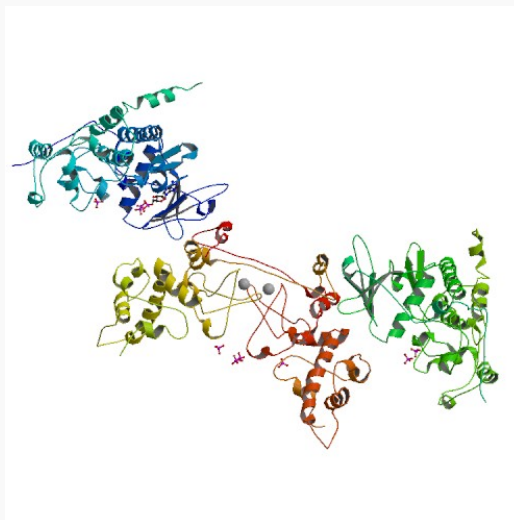
Gene ID 542637

mRNA Refseq NM_001112162

Protein Refseq NP_001105632

UniProt ID P28523

PDB rendering based on 1jwh.



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