

## CK2 alpha/CSNK2A1 Protein, Mouse (sf9)

Cat. No.:	HY-P76825
Synonyms:	Casein kinase II subunit alpha; CK II alpha; CSNK2A1; CK2A1
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q60737 (N-G&P, M1-Q391)
Gene ID:	12995
Molecular Weight:	Approximately 40 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% glycerol, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

#### Background

The catalytic subunit of CK2 alpha/CSNK2A1 protein is an integral component of a constitutively active serine/threonine-protein kinase complex, exhibiting the ability to phosphorylate numerous substrates rich in acidic residues C-terminal to the phosphorylated serine or threonine. This multifaceted kinase regulates diverse cellular processes, including cell cycle progression, apoptosis, transcription, and viral infection. Operating as a regulatory hub, CK2 alpha/CSNK2A1 integrates signals and orchestrates appropriate cellular responses, such as maintaining the spindle assembly checkpoint during mitosis and facilitating p53/TP53-mediated apoptosis. Additionally, CK2 alpha/CSNK2A1 participates in intricate signaling networks by phosphorylating various transcription factors, apoptotic regulators, and extracellular proteins. Its impact extends to the circadian clock function and viral life cycles, emphasizing its pivotal role in cellular homeostasis and response to external stimuli.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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