

CSNK1G1 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P76850
Synonyms:	Casein kinase I isoform gamma-1; CKI-gamma 1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9HCP0-1 (M1-K422)
Gene ID:	53944
Molecular Weight:	Approximately 66 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% gly, 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

CSNK1G1, a serine/threonine-protein kinase belonging to the casein kinase family, is characterized by its operational definition involving the preferential phosphorylation of acidic proteins, including caseins. With a broad substrate specificity, it has the capability to phosphorylate a diverse array of proteins. Functionally, CSNK1G1 actively participates in the intricate Wnt signaling pathway, contributing to the modulation of cellular responses. Moreover, it plays a regulatory role in the rapid transmission of synaptic signals mediated by glutamate, demonstrating its involvement in synaptic processes and neurotransmitter signaling, as observed in other members of the casein kinase family. Notably, CSNK1G1 phosphorylates CLSPN, suggesting its role in influencing cellular processes associated with CLSPN-mediated functions.

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

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