CASK Protein, Human (sf9)

Cat. No.:	HY-P74349
Synonyms:	Peripheral plasma membrane protein CASK; hCASK; CASK; LIN2
Species:	Human
Source:	Sf9 insect cells
Accession:	O14936-4 (A2-Y898)
Gene ID:	8573
Molecular Weight:	Approximately 102 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.
Reconsititution	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 CASK Protein is a multidomain scaffolding Mg(2+)-independent protein kinase that catalyzes phosphotransfer from ATP to various proteins, including NRXN1. It plays a pivotal role in synaptic transmembrane protein anchoring and ion channel trafficking, contributing to neural development and the regulation of gene expression through interaction with the transcription factor TBR1. CASK binds to cell-surface proteins like amyloid precursor protein, neurexins, and syndecans, suggesting its involvement in mediating connections between the extracellular matrix and the actin cytoskeleton, potentially through interactions with syndecan and the actin/spectrin-binding protein 4.1. Additionally, CASK is a component of the LIN-10-LIN-2-LIN-7 complex, which collaborates with the motor protein KIF17 to transport vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit NR2B along microtubules, highlighting its intricate role in cellular processes and neuronal function.

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

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