

CAMKK1 Protein, Human (Sf9)

Cat. No.:	HY-P701722
Synonyms:	CAMKK1; Calcium/calmodulin-dependent protein kinase kinase 1; CaM-KK 1; CaM-kinase kinase 1; CaMKK 1; CaM-kinase IV kinase; Calcium/calmodulin-dependent protein kinase kinase alpha; CaM-KK alpha; CaM-kinase kinase alpha; CaMKK alpha
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8N5S9 (M1-S505)
Gene ID:	84254
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
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	CAMKK1, a calcium/calmodulin-dependent protein kinase, plays a pivotal role in a proposed calcium-triggered signaling cascade that impacts various cellular processes. This kinase exhibits the ability to phosphorylate CAMK1, CAMK1D, CAMK1G, and CAMK4, suggesting its involvement in regulating multiple downstream effectors. CAMKK1 is particularly implicated in the modulation of cell apoptosis, where it promotes cell survival by phosphorylating AKT1/PKB. This phosphorylation event, in turn, inhibits the pro-apoptotic protein BAD (Bcl2-antagonist of cell death), highlighting the intricate regulatory role of CAMKK1 in cellular survival pathways. It has to underscore CAMKK1's significance in orchestrating calcium-dependent signaling cascades and its impact on the delicate balance between cell survival and apoptosis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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