

## CAMKI gamma/CAMK1G Protein, Human (sf9, His, GST)

Cat. No.:	HY-P76191
Synonyms:	Calcium/calmodulin-dependent protein kinase type 1G; CaMKI gamma; CLICK III; CLICK3; VWS1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q96NX5-1 (M1-M476)
Gene ID:	57172
Molecular Weight:	Approximately 75 kDa.

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0, 20% Glycerol, 0.3 mM DTT. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

#### Background

CAMK1G, also known as calcium/calmodulin-dependent protein kinase I gamma, is a crucial member of the CAMK family, participating in a proposed calcium-triggered signaling cascade. This protein exhibits kinase activity, particularly demonstrated in vitro by its phosphorylation of the transcription factor CREB1 (cAMP response element-binding protein 1), suggesting a role in regulating gene expression. The activation of CAMK1G is contingent upon calcium and calmodulin, emphasizing its involvement in intracellular signaling pathways that respond to changes in calcium levels. CAMK1G has potential significance in transducing calcium signals and modulating downstream cellular events through the phosphorylation, contributing to the broader understanding of its functional role in cellular processes.

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

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