

# Recombinant Human Calcium/Calmodulin-Dependent Protein Kinase IG, GST-tagged

Cat. No. CAMK1G-1124H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human CAMK1G containing N-terminal GST tag was expressed by baculovirus in Sf 9 insect cells.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	CAMK1G, a member of CAMK family, is a novel membrane-anchored neuronal Ca <sup>2+</sup> /calmodulin-dependent protein kinase. Full activation of CAMK1G requires both Ca <sup>2+</sup> /CaM and phosphorylation by CAMKK. CAMK1G transcripts is most abundant in neurons, with the highest levels in limited nuclei such as the central nucleus of the amygdala (CeA) and the ventromedial hypothalamus.
<b>Specific Activity</b>	151 nmol phosphate incorporated into Autocamtide 2 per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 uM ATP (0.83 μCi/assay).
<b>Molecular Weight</b>	60.0 kDa
<b>Form</b>	Recombinant protein in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).
<b>Appearance</b>	Liquid
<b>Purity</b>	≥ 90 % by SDS-PAGE

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**Storage** Store product frozen at or below -70°C. Stable for 1 year at -70°C as undiluted stock. Aliquot to avoid repeated thawing and freezing.

## GENE INFORMATION

**Gene Name** CAMK1G calcium/calmodulin-dependent protein kinase IG [ Homo sapiens ]

**Official Symbol** CAMK1G

**Synonyms** CAMK1G; calcium/calmodulin-dependent protein kinase IG; VWS1; CLICKIII; dJ272L16.1; OTTHUMP00000034556; OTTHUMP00000034557; EC 2.7.11.17; Calcium/calmodulin-dependent protein kinase type 1G; CaM kinase I gamma; CaM kinase IG; CaM-KI gamma; CaMKI gamma; CaMK-like CREB kinase III

**Gene ID** [57172](#)

**mRNA Refseq** [NM\\_020439](#)

**Protein Refseq** [NP\\_065172](#)

**UniProt ID** [Q96NX5](#)

**Chromosome Location** [1q32-q41](#)

**Function** ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding

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