

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

Cat. No. CAMK1G-996H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human CAMK1G gamma was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	CAMK1G (CLICK-III), a member of CAMK family, is a novel membrane-anchored neuronal Ca ²⁺ /calmodulin-dependent protein kinase. Full activation of CaMK1G requires both Ca ²⁺ /CaM and phosphorylation by CAMK1G. 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.
Applications	Kinase Assay; Western Blot
Molecular Weight	80 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	820 nmol/min/mg

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Purity	> 85 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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; calcium/calmodulin-dependent protein kinase type 1G; caMKIG; caMKI gamma; caM-KI gamma; caM kinase IG; caM kinase I gamma; caMK-like CREB kinase III; Calcium/calmodulin-dependent protein kinase type 1G; CaM kinase I gamma; CaM kinase IG; CaM-KI gamma; CaMKI gamma; CaMKIG; CaMK-like CREB kinase III; EC 2.7.11.17; OTTHUMP00000034556; OTTHUMP00000034557
Gene ID	57172
mRNA Refseq	NM_020439
Protein Refseq	NP_065172
UniProt ID	Q96NX5

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Chromosome Location	1q32-q41
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; transferase activity

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