

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

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

## SPECIFICATION

<b>Product Overview</b>	Full-length recombinant human CAMK1G gamma was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	CAMK1G (CLICK-III), 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 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.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	80 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	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.
<b>Specific Activity</b>	820 nmol/min/mg

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<b>Purity</b>	> 85 %
<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">CAMK1G calcium/calmodulin-dependent protein kinase IG [ Homo sapiens ]</a>
<b>Official Symbol</b>	CAMK1G
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">57172</a>
<b>mRNA Refseq</b>	<a href="#">NM_020439</a>
<b>Protein Refseq</b>	<a href="#">NP_065172</a>
<b>UniProt ID</b>	<a href="#">Q96NX5</a>

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**Chromosome**

1q32-q41

**Location**

**Function**

ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; transferase activity

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