

Active Recombinant Human CAMK2G Protein, GST-Tagged

Cat. No. CAMK2G-0334H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CAMK2G (NP_751910.1, 1 a.a. - 518 a.a.) full-length recombinant protein with GST tag expressed in baculovirus infected Sf21 cells. cells.
Species	Human
Source	Insect Cells
Description	The product of this gene is one of the four subunits of an enzyme which belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a gamma chain. Many alternatively spliced transcripts encoding different isoforms have been described but the full-length nature of all the variants has not been determined.[provided by RefSeq, Mar 2011]
Form	Liquid
Bio-activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate, Mg(or Mn)/ATP, and Ca/Calmodulin. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip TM3000. Substrate: GS peptide. ATP: 100 µM.
Molecular Mass	85 kDa

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Purity	63 % by SDS-PAGE/CBB staining
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)

GENE INFORMATION

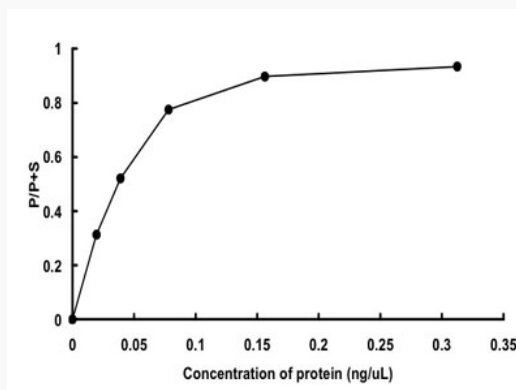
Gene Name	CAMK2G calcium/calmodulin-dependent protein kinase II gamma [Homo sapiens]
Official Symbol	CAMK2G
Synonyms	CAMK2G; calcium/calmodulin-dependent protein kinase II gamma; calcium/calmodulin dependent protein kinase (CaM kinase) II gamma, CAMKG; calcium/calmodulin-dependent protein kinase type II subunit gamma; caMK-II subunit gamma; calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma; CAMK; CAMKG; CAMK-II; FLJ16043; MGC26678;
Gene ID	818
mRNA Refseq	NM_001204492
Protein Refseq	NP_001191421
MIM	602123
UniProt ID	Q13555

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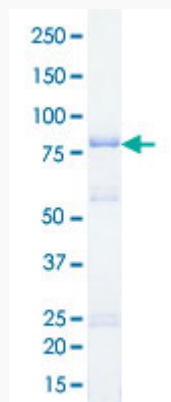
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Result of activity analysis



Quality Control Testing



Loading 1 µg protein in SDS-PAGE

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