

Recombinant Full Length Human CAMK2G Protein, His tagged

Cat. No. CAMK2G-6970HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CAMK2G Protein with His tag was expressed in Baculovirus-Insect Cells.
Species	Human
Source	Insect Cells
ProteinLength	1-518 aa
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.
AASequence	MHHHHHHHHHDYKDDDDKMATTATCTRFTDDYQLFEELGKGAFSVVRRVCVKKTSTQ EYAAKIINTKKLSARDHQKLREARICRLKHPNIVRLHDSISEEGFHYLVFDLVTGGE LFEDIVAREYYSEADASHCIHQILES VNHIHQHDIVHRDLKPENLLLASKCKGAAVKLA DFGLAIEVQGEQQAWFGFAGTPGYLSPEVLRKDPYGKPVDIWACGVILYILLVGYP FWDEDQHKLYQQIKAGAYDFPSPEWDTVTPEAKNLINQMLTINPAKRITADQALKHP WVCQRSTVASMMHRQETVECLRKFNARRKLKGAILTTMLVSRNFSAAKSLLNKKSD GGVKKRKSSSSVHLMPQSNNKNSLVSPAQEPAPLQTAMEPQTTVVHNATDGIKGST

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ESCNTTTEDEDLKGRVPEGRSSRDRTAPSAGMQPQPQLCSSAMRKQEIIKITEQLIE
 AINNGDFEAYTKICDPGLTSFEPEALGNLVEGMDFHKFYFENLLSKNSKPIHTTILNPH
 VHVIGEDAACIAYIRLTQYI

Molecular Mass 60 kDa

Purity >90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Sterile 20mM Tris, pH7.5, 200mM NaCl, 10% Glycerol. 1mM DTT.

Concentration 0.34 mg/mL by Bradford

GENE INFORMATION

Gene Name CAMK2G calcium/calmodulin dependent protein kinase II gamma [Homo sapiens (human)]

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

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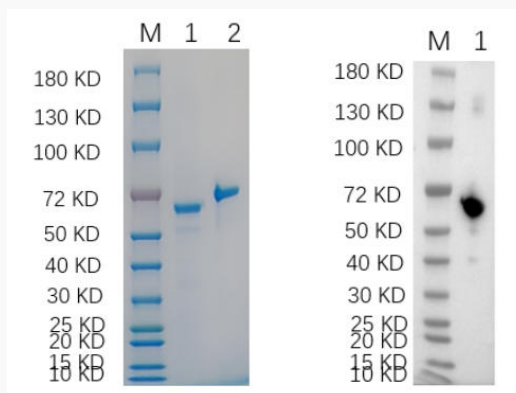
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Protein Refseq NP_001191421

MIM 602123

UniProt ID Q13555

SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified CAMK2G. 1. CAMK2G: 1 μ g 2. BSA: 1 μ g

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