

Recombinant Human CAMK2G Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CAMK2G-2508H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CAMK2G MS Standard C13 and N15-labeled recombinant protein (NP_751913) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	56.8 kDa
AA Sequence	MATTATCTRFTDDYQLFEELGKGAFSVVRRVCVKKTSTQEYAAKIINTKKLSARDHQK LEREARICRLLKHPNIVRLHDSISEEGFHLYVFDLVTGGELFEDIVAREYYSEADASHC IHQILESVNHIHQHDIVHRDLKPENLLLASKCKGA AVKLADFLAIEVQGEQQA WFGF AGTPGYLSPEVLRKDPYGKPVDIWACGVILYILLVGYPFWDEDQHKLYQQIKAGAY DFPSPEWDTVTPEAKNLINQMLTINPAKRITADQALKHPWVCQRSTVASMMHRQET VECLRKFNARRKLKGAILTTMLVSRNFSAAKSLLNKKSDGGVKPQSNKNSLEPQTT

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VVHNATDGIKGSTESCNTTTEDEDLKVRKQEIIKITEQLIEAINNGDFEAYTKICDPGLT
SFEPEALGNLVEGMDFHKFYFENLLSKNSKPIHTTILNPHVHVIGEDAACIAYIRLTQYI
DGQGRPRTSQSEETRVWHRRDGKWLNVHYHCSGAPAAPLQTRTRPLEQKLISEED
LAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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

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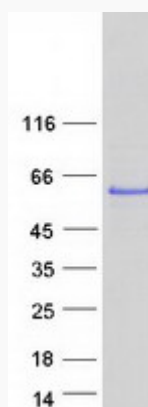
mRNA Refseq [NM_172173](#)

Protein Refseq [NP_751913](#)

MIM [602123](#)

UniProt ID [Q13555](#)

SDS-PAGE



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