

Recombinant Human CAMK2D Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CAMK2D-2739H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CAMK2D MS Standard C13 and N15-labeled recombinant protein (NP_742113) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The product of this gene 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 delta chain. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Distinct isoforms of this chain have different expression patterns.
Molecular Mass	53.9 kDa
AA Sequence	MASTTTCTRFTDEYQLFEELGKGAFSVVRRCKIPTGQEYAAKIINTKKLSARDHQK LEREARICRLKHPNIVRLHDSISEEGFHLYVFDLVTGGELFEDIVAREYYSEADASHC IQQILESVNHCHLNGIVHRDLKPENLLASKSKGA AVKLADFGLAIEVQGDQQAWFG FAGTPGYLSPEVLRKDPYGKPVDMWACGVILYILLVGYPFWDQHRLYQQIKAG AYDFPSPEWDTVTPEAKDLINKMLTINPAKRITASEALKHPWICQRSTVASMMHRQE TVDCLKKFNARRKLKGAILTTMLATRNFSAAKSLLKKPDGVKESTESSNTTIEDVDK

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ARKQEIIKVTEQLIEAINNGDFEAYTKICDPGLTAFEPEALGNLVEGMDFHRFYFENAL
SKSNKPIHTIILNPHVHLVGDDAACIAYIRLTQYMDGSGMPKTMQSEETRVWHRRDG
KWQNVHFHRSGSPTVPIKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 CAMK2D calcium/calmodulin-dependent protein kinase II delta [Homo sapiens (human)]

Official Symbol CAMK2D

Synonyms CAMK2D; calcium/calmodulin-dependent protein kinase II delta; calcium/calmodulin dependent protein kinase (CaM kinase) II delta, CAMKD; calcium/calmodulin-dependent protein kinase type II subunit delta; CaMK-II delta subunit; caMK-II subunit delta; CaM-kinase II delta chain; CaM kinase II delta subunit; caM kinase II subunit delta; calcium/calmodulin-dependent protein kinase type II delta chain; calcium/calmodulin-dependent protein kinase (CaM kinase) II delta; CAMKD; MGC44911; DKFZp686I2288; DKFZp686G23119;

Gene ID 817

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mRNA Refseq	NM_172115
Protein Refseq	NP_742113
MIM	607708
UniProt ID	Q13557
SDS-PAGE	