

Recombinant Human CAMK2B Protein, His-tagged

Cat. No. CAMK2B-156H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAMK2B, transcript variant 5, fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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 beta chain. It is possible that distinct isoforms of this chain have different cellular localizations and interact differently with calmodulin. Alternative splicing results in multiple transcript variants.
Form	Supplied as a 0.2 μM filtered solution of 10mM HEPES, 150mM NaCl, pH 7.5
Molecular Mass	57.4kD
AA Sequence	MATTVTCTRFTDEYQLYEDIGKGAFSVVRRCKLCTGHEYAAKIINTKKLSARDHQKL EREARICRLKHSNIVRLHDSISEEGFHYLVFDLVTGGELFEDIVAREYYSEADASHCI QQILEAVLHCHQMGGVHRDLKPENLLLASKCKGA AVKLADFG LAIEVQGDQQAWFG FAGTPGYLSPEVLRKEAYGKPVDIWACGVILYILLVGYPFWDEDQHKLYQQIKAGA YDFPSPEWDTVTPEAKNLINQMLTI

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Endotoxin	Endotoxin level is <0.1 ng/g of protein (<1EU/g).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
GENE INFORMATION	
Gene Name	CAMK2B calcium/calmodulin-dependent protein kinase II beta [Homo sapiens]
Official Symbol	CAMK2B
Synonyms	CAMK2B; calcium/calmodulin-dependent protein kinase II beta; calcium/calmodulin dependent protein kinase (CaM kinase) II beta , CAMKB; calcium/calmodulin-dependent protein kinase type II subunit beta; calcium/calmodulin dependent protein kinase type II beta chain; CaM kinase II beta subunit; CaM kinase II beta chain; CAM2; CAMK2; proline rich calmodulin dependent protein kinase; caMK-II subunit beta; CaM-kinase II beta chain; proline rich calmodulin-dependent protein kinase; CAMKB; MGC29528;
Gene ID	816
mRNA Refseq	NM_172081
Protein Refseq	NP_742078
MIM	607707
UniProt ID	Q13554