

Recombinant Human CAMK2D, GST-tagged, Active

Cat. No. CAMK2D-266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CAMK2delta was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 77 kDa.
Species	Human
Source	Sf9 Cells
Description	CAMK2D is a serine/threonine protein kinase that is a member of the type II multifunctional Ca ²⁺ /calmodulin-dependent protein kinase family. CAMK2D is abundantly present in human cardiac and skeletal muscle and its levels are increased in the heart of patients suffering from cardiomyopathy. In cardiomyocytes, stimulation of beta-1-adrenergic receptor leads to induction of apoptosis, an effect that is mediated by activation of CAMK2D in a PKA-independent manner. In addition, expression studies have revealed the downregulation of CAMK2D in human tumor cells.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

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Gene Name	CAMK2D calcium/calmodulin-dependent protein kinase II delta [Homo sapiens]
Synonyms	CAMK2D; calcium/calmodulin-dependent protein kinase II delta; CAMKD; MGC44911; DKFZp686I2288; DKFZp686G23119; OTTHUMP00000163830; CaMK-II delta subunit; CaM-kinase II delta chain; CaM kinase II delta subunit; calcium/calmodulin-dependent protein kinase type II delta chain; calcium/calmodulin-dependent protein kinase (CaM kinase) II delta; EC 2.7.11.17; OTTHUMP00000163829; CaM kinase II subunit delta; CaMK-II subunit delta
Gene ID	817
mRNA Refseq	NM_001221
Protein Refseq	NP_001212
MIM	607708
UniProt ID	Q13557
Chromosome Location	4q26
Pathway	Calcium signaling pathway; ErbB signaling pathway; Glioma; GnRH signaling pathway; Long-term potentiation; Melanogenesis; Neurotrophin signaling pathway; Olfactory transduction; Wnt signaling pathway
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; transferase activity