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 Ca2+/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

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