Recombinant Human CAMKK1, GST-tagged, Active

Cat. No. CAMKK1-269H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CAMKK1 was expressed by baculovirus in*Sf9*insect cells using a N-terminal GST tag. MW = 94 kDa.
Species	Human
Source	Sf9 Cells
Description	CAMKK1 or CAMKKα is a Ca(2+)/calmodulin-dependent protein kinase that activates CaM-kinases I and IV via phosphorylation of their Thr(177) and Thr(196) residues, respectively. Recent studies have shown that the activity of CAMKK1 is decreased upon phosphorylation by cAMP-dependent protein kinase (PKA) The CAMKKalpha has been identified in intact cells as AMPKKs, predicting a significant role for this kinase in regulating AMPK activity in vivo. It has been shown that 2-deoxyglucose- and ionomycin-stimulated AMPK activity is substantially reduced in HeLa cells transfected with small interfering RNAs specific for CAMKKα.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70℃. 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	CAMKK1 calcium/calmodulin-dependent protein kinase kinase 1, alpha [Homo sapiens]
Synonyms	CAMKK1; calcium/calmodulin-dependent protein kinase kinase 1, alpha; CAMKKA; MGC34095; DKFZp761M0423; calcium/calmodulin-dependent protein kinase 1 alpha; CAMKK alpha protein; EC 2.7.11.17; OTTHUMP00000115904; Calcium/calmodulin-dependent protein kinase kinase alpha; CaM-KK alpha; CaM-kinase IV kinase; CaM-kinase kinase alpha; CaMKK alpha
Gene ID	84254
mRNA Refseq	NM_032294
Protein Refseq	NP_115670
MIM	611411
UniProt ID	Q8N5S9
Chromosome Location	17p13.2
Pathway	Adipocytokine signaling pathway
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; IEA; transferase activity

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