

## Recombinant Human CAMKK1, GST-tagged, Active

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human CAMKK1 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag. MW = 94 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	<p>CAMKK1 or CAMKK<math>\alpha</math> 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 CAMKK<math>\alpha</math>.</p>
<b>Sequence</b>	Full-length.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	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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<b>Gene Name</b>	CAMKK1 calcium/calmodulin-dependent protein kinase kinase 1, alpha [ Homo sapiens ]
<b>Synonyms</b>	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
<b>Gene ID</b>	84254
<b>mRNA Refseq</b>	NM_032294
<b>Protein Refseq</b>	NP_115670
<b>MIM</b>	611411
<b>UniProt ID</b>	Q8N5S9
<b>Chromosome Location</b>	17p13.2
<b>Pathway</b>	Adipocytokine signaling pathway
<b>Function</b>	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; IEA; transferase activity

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