

Recombinant Human CAMK4, GST-tagged, Active

Cat. No. CAMK4-268H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CAMK4 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag. MW = 79 kDa.
Species	Human
Source	Sf9 Cells
Description	CAMK4 is a multifunctional serine/threonine protein kinase and a member of Ca(2+)/calmodulin- dependent protein kinase family. CAMK4 is localized in neurons in the hippocampus, amygdala, anterior cingulate cortex, somatosensory cortex, and insular cortex. CAMK4 is involved in neural activity-dependent signaling in the neuronal nucleus and thought to plays an important role in the consolidation/retention of hippocampus-dependent long-term memory.
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

Gene Name CAMK4 calcium/calmodulin-dependent protein kinase IV [Homo sapiens]

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Synonyms	CAMK4; calcium/calmodulin-dependent protein kinase IV; CaMK-GR; MGC36771; CAM kinase IV; CAM kinase- GR; brain Ca ⁺⁺ -calmodulin-dependent protein kinase type IV; brain Ca(2+)-calmodulin-dependent protein kinase type IV; calcium/calmodulin-dependent protein kinase type IV catalytic chain; EC 2.7.11.17; CaMK IV
Gene ID	814
mRNA Refseq	NM_001744
Protein Refseq	NP_001735
MIM	114080
UniProt ID	Q16566
Chromosome Location	5q21.3
Pathway	Calcium signaling pathway; Long-term potentiation; Neurotrophin signaling pathway
Function	ATP binding; calcium ion binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; transcription activator activity; transferase activity

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