

Active Recombinant Mouse CAMK1, GST-tagged

Cat. No. CAMK1-1372M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length mouse CAMK1 was expressed in E. coli cells using an N-terminal GST tag.
Species	Mouse
Source	E.coli
ProteinLength	Full length
Description	CAMK1 is a serine/threonine protein kinase that is a member of the multifunctional calcium/calmodulin-dependent protein kinase family. CAMK1 is ubiquitously expressed and phosphorylates a number of proteins including SYN1, SYN2, CREB and CFTR. In addition, Numb family of proteins may also be intracellular targets for CAMK1, and they may also be regulated by phosphorylation-dependent interaction with 14-3-3 protein. CAMK1 also plays an important role in the trafficking of HDAC7 between the cytoplasm and the nucleus. CAMK1 phosphorylates HDAC7 on multiple sites that lead to alteration in localization of HDAC7.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	3214 nmol/min/mg
Molecular Mass	~70 kDa

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Purity	>90%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	Camk1 calcium/calmodulin-dependent protein kinase I [Mus musculus]
Official Symbol	CAMK1
Synonyms	CAMK1; calcium/calmodulin-dependent protein kinase I; calcium/calmodulin-dependent protein kinase type 1; caM-KI; caMKI-alpha; caM kinase I alpha; AI505105; CaMKIalpha; D6Erttd263e;
Gene ID	52163
mRNA Refseq	NM_133926
Protein Refseq	NP_598687
Pathway	Calcium Regulation in the Cardiac Cell, organism-specific biosystem;
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; catalytic activity; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity; transferase activity, transferring phosphorus-containing groups;

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