

Recombinant Human Calcium/Calmodulin-Dependent Protein Kinase I, His-tagged

Cat. No. CAMK1-46H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fulllength human CAMK2D with His tag.
Species	Human
Source	Insect Cells
Description	CAMK1 is an enzyme that in humans is encoded by the CAMK1 gene. CAMK1 is expressed in many tissues and is a component of a calmodulin-dependent protein kinase cascade. Calcium/calmodulin directly activates CAMK1 by binding to the enzyme and indirectly promotes the phosphorylation and synergistic activation of the enzyme by CAMK1.
Form	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.05% Triton X-100 + 2mM DTT + 50% glycerol.
Molecular Weight	59.2 kDa
Concentration	0.32 mg/ml
Purity	≥ 90%
Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	CAMK1

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GENE INFORMATION

Gene Name	CAMK1calcium/calmodulin-dependent protein kinase I [Homo sapiens]
Synonyms	CAMK1;calcium/calmodulin-dependent protein kinase I; CAMKI; CaMKI; MGC120317;MGC120318; calcium/calmodulin-dependent protein kinase type 1; caM-KI;CaM-KI; caMKI-alpha; CaMKI-alpha; CaM kinase I; OTTHUMP00000158527; caMkinase I alpha; EC 2.7.11.17
Gene ID	8536
mRNA Refseq	NM_003656
Protein Refseq	NP_003647
MIM	604998
UniProt ID	Q14012
Chromosome Location	3p25.3
Pathway	Calcium Regulationin the Cardiac Cell
Function	ATP binding;calmodulin binding; calmodulin-dependent protein kinase activity; nucleotidebinding; protein binding
PDB rendering basedon 1a06.	

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