

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

Cat. No. CAMK1-5372H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human full length CAMK1 with His tag is expressed in insect cells.
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 kinase.
Form	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50% glycerol.
Molecular Weight	45.4 kDa
Concentration	0.36 mg/ml
Purity	≥90% as determined by SDS-PAGE analysis.
Specific Activity	1353 nmole of phosphate transferred to Autocamtide-2 peptide substrate (KKALRRQETVDAL) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 0.83 µg/ml.

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Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	CAMK1
Full Length	Full L.
GENE INFORMATION	
Gene Name	CAMK1 calcium/calmodulin-dependent protein kinase I [Homo sapiens]
Synonyms	CAMK1; calcium/calmodulin-dependent protein kinase I; CAMKI; MGC120317; MGC120318; calcium/calmodulin-dependent protein kinase type 1; caM-KI; caMKI-alpha; OTTHUMP00000158527; caM kinase I alpha; EC 2.7.11.17; CaM kinase I
Gene ID	8536
mRNA Refseq	NM_003656
Protein Refseq	NP_003647
MIM	604998
UniProt ID	Q14012
Chromosome Location	3p25.3
Pathway	Calcium Regulation in the Cardiac Cell
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding

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