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

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

SPECIFICATION

Product Overview	Recombinant humanfull 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 theCAMK1 gene. CAMK1 is expressed in many tissuesand is a component of a calmodulin-dependent protein kinase cascade.Calcium/calmodulin directly activates CAMK1 by binding to the enzyme andindirectly promotes the phosphorylation and synergistic activation of theenzyme by CAMK1 kinase.
Form	Liquid in50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mMDTT + 50% glycerol.
Molecular Weight	45.4 kDa
Concentration	0.36 mg/ml
Purity	≥90% as determined by SDS-PAGE analysis.
Specific Activity	1353nmole of phosphate transferred to Autocamtide-2 peptide substrate(KKALRRQETVDAL) per minute per mg of total protein at 30°C. Activitydetermined at a final protein concentration of 0.83 μg/ml.

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Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	CAMK1
Full Length	Full L.

GENE INFORMATION

Gene Name	CAMK1calcium/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 theCardiac Cell
Function	ATP binding; calmodulinbinding; calmodulin-dependent protein kinase activity; nucleotide binding

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