



# Recombinant Human Calcium/calmodulin-dependent protein kinase type 1 (CAMK1)

<b>Product Code</b>	CSB-EP614509HU
<b>Abbreviation</b>	CAMK1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q14012
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MLGAVEGPRW KQAEDIRDIY DFRDVLGTGA FSEVILAEDK RTQKLVAIKC IAKEALEGKE GSMENEIAVL HKIKHPNIVA LDDIYESGGH LYLMQLVSG GELFDRIVEK GFYTERDASR LIFQVLDVAVK YLHDLGIVHR DLKPENLLYY SLDEDSKIMI SDFGLSKMED PGSVLSTACG TPGYVAPEVL AQKPYSKAVD CWSIGVIAYI LLCGYPPFYD ENDAKLFEQI LKAEYEFDSP YWDDISDSAK DFIRHLMKED PEKRFTCEQA LQHPWIAGDT ALDKNIHQSV SEQIKKNFAK SKWKQAFNAT AVVRHMRKLQ LGTSQEGQGQ TASHGELLTP VAGGPAAGCC CRDCCVEPGT ELSPTLPHQL
<b>Source</b>	E.coli
<b>Target Names</b>	CAMK1
<b>Protein Names</b>	Recommended name: Calcium/calmodulin-dependent protein kinase type 1 EC=2.7.11.17 Alternative name(s): CaM kinase I Short name= CaM-KI CaM kinase I alpha Short name= CaMKI-alpha
<b>Expression Region</b>	1-370
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	Calcium/calmodulin-dependent protein kinase I is expressed in many tissues and is a component of a calmodulin-dependent protein kinase cascade. Calcium/calmodulin directly activates calcium/calmodulin-dependent protein kinase I by binding to the enzyme and indirectly promotes the phosphorylation and synergistic activation of the enzyme by calcium/calmodulin-dependent protein kinase I kinase.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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