

Recombinant Human CAMK1, GST-tagged

Cat. No. CAMK1-10678H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAMK1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	319-370a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	CAMK1 calcium/calmodulin-dependent protein kinase I [Homo sapiens]
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Official Symbol	CAMK1
Synonyms	CAMK1; calcium/calmodulin-dependent protein kinase I; calcium/calmodulin-dependent protein kinase type 1; CaMKI; caM-KI; caMKI-alpha; caM kinase I alpha; CAMKI; MGC120317; MGC120318;
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, organism-specific biosystem;
Function	ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; protein binding;

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