

# Recombinant Human CAMK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CAMK1-1850H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	CAMK1 MS Standard C13 and N15-labeled recombinant protein (NP_003647) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</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>Molecular Mass</b>	41.2 kDa
<b>AA Sequence</b>	MLGAVEGPRWKQAEDIRDIYDFRDVLGTGAFSEVILAEDKRTQKLVAIKCIAKEALEG KEGSMENEIAVLHKIKHPNIVALDDIYESGGHLYLIMQLVSGGELFDRIVEKGFYTERD ASRLIFQVLDAVKYLHDLGIVHRDLKPENLLYSLDEDSKIMISDFGLSKMEDPGSVLS TACGTPGYVAPEVLAQKPYSKAVDCWSIGVIAIYILLCGYPPFYDENDAKLFEQILKAE YEFDSPYWDDISDSAKDFIRHLMEKDPEKRFTCEQALQHPWIAGDTALDKNIHQSVS EQIKKNFAKSKWKQAFNATAVVRHMRKLQLGTSQEGQGQTASHGELLTPVAGGPA AGCCCRDCCVEPGTELSPTLPHQLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	CAMK1 calcium/calmodulin-dependent protein kinase I [ Homo sapiens (human) ]
<b>Official Symbol</b>	CAMK1
<b>Synonyms</b>	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;
<b>Gene ID</b>	8536
<b>mRNA Refseq</b>	NM_003656
<b>Protein Refseq</b>	NP_003647
<b>MIM</b>	604998
<b>UniProt ID</b>	Q14012

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**SDS-PAGE**



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