

Recombinant Human CAMKK2 Protein, His-tagged

Cat. No. CAMKK2-359H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAMKK2 Protein (Met1-Gly332) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Gly332
Description	The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. The major isoform of this gene plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade by phosphorylating the downstream kinases CaMK1 and CaMK4. Protein products of this gene also phosphorylate AMP-activated protein kinase (AMPK). This gene has its strongest expression in the brain and influences signalling cascades involved with learning and memory, neuronal differentiation and migration, neurite outgrowth, and synapse formation. Alternative splicing results in multiple transcript variants encoding distinct isoforms. The identified isoforms differ in their ability to undergo autophosphorylation and to phosphorylate downstream kinases.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 40.1 kDa Accurate Molecular Mass: 43 kDa

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CAMKK2 calcium/calmodulin-dependent protein kinase kinase 2, beta [Homo sapiens (human)]
Official Symbol	CAMKK2
Synonyms	CAMKK2; calcium/calmodulin-dependent protein kinase kinase 2, beta; calcium/calmodulin-dependent protein kinase kinase 2; CAMKK; CAMKKB; KIAA0787; MGC15254; caM-KK 2; caM-KK beta; CAMKK beta protein; caM-kinase kinase 2; caM-kinase kinase beta; calcium/calmodulin-dependent protein kinase beta
Gene ID	10645

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mRNA Refseq	NM_006549
Protein Refseq	NP_006540
MIM	615002
UniProt ID	Q96RR4

