

CAMKK1 recombinant protein

CAMKK1, Active

CATALOG # AAA73313	HOST Sf9 insect cells	APPLICATIONS Western Blot
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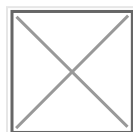
PRODUCT SYNONYMS

CAMKK1; Active; CAMKKA; MGC34095; DKFZp761M0423; CAMKK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Applicable Applications for CAMKK1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for CAMKK1 recombinant protein	Recombinant full-length human CAMKK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_032294. CAMKK1 or CAMKKalpha is a Ca(2+)/calmodulin-dependent protein kinase that activates CaM-kinases I and IV via phosphorylation of their Thr(177) and Thr(196) residues, respectively. Recent studies have shown that the activity of CAMKK1 is decreased upon phosphorylation by cAMP-dependent protein kinase (PKA)(1) The CAMKKalpha has been identified in intact cells as AMPKs, predicting a significant role for this kinase in regulating AMPK activity in vivo. It has been shown that 2-deoxyglucose-and ionomycin-stimulated AMPK activity is substantially reduced in HeLa cells transfected with small interfering RNAs specific for CAMKKalpha (2).
Product Categories/Family for CAMKK1 recombinant protein	Protein Kinases; Cardiovascular Disease; ERK/MAPK Pathway; Neurobiology; PKA/PKC Pathway; Ser/Thr Kinases
References	1. Okuno, S. et al: Regulation of Ca(2+)/calmodulin-dependent protein kinase kinase alpha by cAMP-dependent protein kinase: I. Biochemical analysis. J Biochem (Tokyo). 2001 Oct;130(4):503-13. 2. Hurley, R L. et al: The Ca2+/calmodulin-dependent protein kinase kinases are AMP-activated protein kinase kinases. J Biol Chem. 2005 Aug 12;280(32):29060-6.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_032294
Molecular Weight	~94kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/camkk1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73313>