

CAMK1 recombinant protein

CAMK1, Active

CATALOG # AAA73301	HOST E Coli	APPLICATIONS Western Blot
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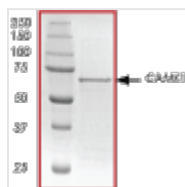
PRODUCT SYNONYMS

CAMK1; Active; AI505105; D6Ertd263e; CAMK1 recombinant protein

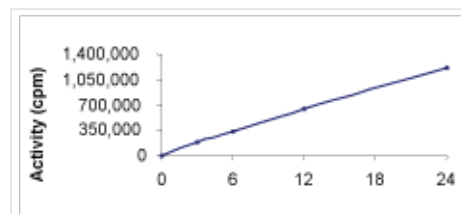
PRODUCT SPECIFICATIONS

Host	E Coli
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 CAMK1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Mouse
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 CAMK1 recombinant protein	Recombinant full-length mouse CAMK1 was expressed in E-coli cells using an N-terminal GST tag. The gene accession number is NM_133926. CAMK1 is a serine/threonine protein kinase that is a member of the multifunctional calcium/calmodulin-dependent protein kinase family. CAMK1 is ubiquitously expressed and phosphorylates a number of proteins including SYN1, SYN2, CREB and CFTR. In addition, Numb family of proteins may also be intracellular targets for CAMK1, and they may also be regulated by phosphorylation-dependent interaction with 14-3-3 protein (1). CAMK1 also plays an important role in the trafficking of HDAC7 between the cytoplasm and the nucleus. CAMK1 phosphorylates HDAC7 on multiple sites that lead to alteration in localization of HDAC7 (2).
Product Categories/Family for CAMK1 recombinant protein	Protein Kinases ; Cardiovascular Disease ; ERK/MAPK Pathway ; Neurobiology ; PKA/PKC Pathway ; Ser/Thr Kinases

References

1. Tokumitsu, H. et al: Phosphorylation of Numb family proteins. Possible involvement of Ca²⁺/calmodulin-dependent protein kinases. J Biol Chem. 2005 Oct 21;280(42):35108-18.
2. Gao, C. et al: CRM1 mediates nuclear export of HDAC7 independently of HDAC7 phosphorylation and association with 14-3-3s. FEBS Lett. 2006 Sep 18;580(21):5096-104.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_133926](#)

Molecular Weight

~70kDa

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/camk1-recombinant-protein-e-coli-wb-western-blot-kinase-assay/73301>