

Calcium/calmodulin-dependent protein kinase type II subunit alpha (Camk2a) Recombinant Protein | Camk2a recombinant protein

Recombinant Mouse Calcium/calmodulin-dependent protein kinase type II subunit alpha (Camk2a)

CATALOG #
AAA113949

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

PRODUCT SYNONYMS

Calcium/calmodulin-dependent protein kinase type II subunit alpha (Camk2a); Recombinant Mouse Calcium/calmodulin-dependent protein kinase type II subunit alpha (Camk2a); Camk2a recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-478, Full length protein
Sequence	MATITCTRFT EEYQLFEELG KGAFSVVRRK VKVLAGEQYA AKIINTKKLS ARDHQKLERE ARICRLKHP NIVRLHDSIS EEGHHYLIFD LVTGGELFED IVAREYYSEA DASHCIQIL EAVLHCHQMG VVHRDLKPEN LLLASKLKGA AVKLADFGLA IEVEGEQAW FGFACTPGYL SPEVLRKDPY GKPVDLWACG VILYILLVGY PPFWDEDQHR LYQQIKAGAY DFPSPWDVT TPEAKDLINK MLTINPSKRI TAAEALKHPW ISHRSTVASC MHRQETVDCL KKFNARRKLK GAILTTMLAT RNFGSGKSGG NKKNDGVKES SESTNTTIED EDTKVRKQEI IKVTEQLIEA ISNGDFESYT KMCDPGMTAF EPEALGNLVE GLDFHRFYFE NLWSRNSKPV HTTILNPHIH LMGDESACIA YIRITQYLDG GGIPRTAQSE ETRVWHRDGD KWQIVHFHRS GAPSVLPH
Sequence Length	478
Species	Mouse
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for Camk2a recombinant protein	The product of this gene belongs to the serine threonine protein kinases family, and to the Ca(2+) calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by this gene is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity. Two transcript variants encoding distinct isoforms have been identified for this gene.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	558472775
NCBI GeneID	12322
NCBI Accession #	NP_001273738.1
NCBI GenBank Nucleotide #	NM_001286809.1

UniProt Accession #	P11798 ; Q61284 ; Q6ZWN4
Molecular Weight	22,584 Da
NCBI Official Full Name	calcium/calmodulin-dependent protein kinase type II subunit alpha isoform 3
NCBI Official Synonym Full Names	calcium/calmodulin-dependent protein kinase II alpha
NCBI Official Symbol	Camk2a
NCBI Official Synonym Symbols	CaMKII; R74975; mKIAA0968
NCBI Protein Information	calcium/calmodulin-dependent protein kinase type II subunit alpha
UniProt Protein Name	Calcium/calmodulin-dependent protein kinase type II subunit alpha
UniProt Gene Name	Camk2a
UniProt Synonym Gene Names	CaM kinase II subunit alpha; CaMK-II subunit alpha

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/camk2a-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113949>