

Product datasheet

CaMKII peptide ab188554

Overview

Product name CaMKII peptide

Description

Nature Synthetic

Amino Acid Sequence

Sequence ALRRQETVDAL

Additional sequence information Peptide sequence based on the autophosphorylation site (amino acid 283-290) on CaMKII alpha.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab188554** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications HPLC
Functional Studies

Form Lyophilised

Additional notes ab188554 (CaMKII peptide) can be utilized as a substrate for the following active protein kinases:

- [ab51398](#) (Active mouse CaMKI full length protein)
- [ab60891](#) (Active human PNCK full length protein)
- [ab60898](#) (Active human CAMK 1D beta full length protein)
- [ab51400](#) (Active human CaMKI gamma protein fragment)
- [ab60899](#) (Active human CaMKII alpha full length protein)
- [ab84552](#) (Active human CaMKII delta full length protein)
- [ab63189](#) (Active human CamKII gamma protein fragment)
- [ab60756](#) (Human CAMKIV full length protein)
- [ab101777](#) (Active human DCAMKL1 full length protein)

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C.

Reconstitution Dilute peptide in distilled water to a final concentration of 1 mg/ml. For optimal storage, aliquot diluted product into smaller quantities and store at recommended temperature.

General Info

Function CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity.

Sequence similarities Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.

Cellular localization Cell junction > synapse > presynaptic cell membrane. Cell junction > synapse. Postsynaptic lipid rafts.

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