

## Product datasheet

### CaMKII peptide ab188554

#### Description

<b>Product name</b>	CaMKII peptide
<b>Purity</b>	> 99 % HPLC.
<b>Animal free</b>	No
<b>Nature</b>	Synthetic
<b>Sequence</b>	ALRRQETVDAL
<b>Additional sequence information</b>	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.

<b>Applications</b>	HPLC Functional Studies
<b>Form</b>	Lyophilized
<b>Additional notes</b>	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

<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C.
<b>Reconstitution</b>	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

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<b>Function</b>	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.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.
<b>Cellular localization</b>	Cell junction > synapse > presynaptic cell membrane. Cell junction > synapse. Postsynaptic lipid rafts.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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