

# PE-01ACM95-P

## Autocamtide-2 peptide Peptide Powder

13-mer kinase substrate peptide for assaying CaMK2a



# KINEXUS

Address: 8755 Ash Street, Suite 1  
Vancouver, British Columbia,  
Canada V6P 6T3

Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547

### Target Protein

<b>Name Long:</b>	Calcium/calmodulin-dependent protein-serine kinase 2 alpha
<b>Name Alias:</b>	Calcium/calmodulin-dependent protein kinase II alpha; Calcium/calmodulin-dependent protein kinase II alpha-B subunit; Calcium/calmodulin-dependent protein kinase type II alpha chain; CaM kinase II alpha subunit; CaMK2-alpha; CAMKA; CaMK-II alpha subunit; CaMKII-alpha; CaMKIINalpha; Kinase CaMK2-alpha; CaM-kinase II alpha chain; EC 2.7.11.17; KCC2A; KIAA0968
<b>UniProt ID:</b>	Q9UQM7

### Peptide Structure

<b>Peptide Name:</b>	Autocamtide-2 peptide
<b>Peptide Origin:</b>	Based on autophosphorylation site in CaMK isoforms that confers calcium-independent catalytic activity
<b>Peptide Sequence Location:</b>	Not applicable
<b>Peptide Sequence:</b>	KKALRRQETVDAL
<b>Peptide N-Terminus:</b>	Free amino
<b>Peptide C-Terminus:</b>	Acid
<b>Peptide Modifications Other:</b>	None

### Production

<b>Peptide Production Method:</b>	Solid-phase peptide synthesis
<b>Calculated Peptide Mass:</b>	1527.7
<b>% Peptide Purity:</b>	> 95
<b>Peptide Appearance:</b>	White powder
<b>Peptide Form:</b>	Solid
<b>Peptide Solubility:</b>	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
<b>Lot Number:</b>	A15-58
<b>Amount:</b>	1 mg
<b>Storage Conditions:</b>	Frozen at -20 °C
<b>Storage Stability:</b>	Over 1 year at -20 °C

### Applications

<b>Product Use:</b>	For assaying the phosphotransferase activities of PNCK pregnancy up-regulated non-ubiquitously expressed CaM kinase (CAMK1b, UniProt ID Q6P2M8), Calcium/calmodulin-dependent protein kinase type I delta (CAMK1d, UniProt ID Q8IU85), Calcium/calmodulin-dependent protein-serine kinase 2 alpha (CaMK2a, UniProt ID Q9UQM7), Calcium-calmodulin-dependent protein kinase type II beta chain (CAMK2b, UniProt ID Q13554), Calcium-calmodulin-dependent protein kinase type II gamma chain (CAMK2g, UniProt ID Q13555), Calcium-calmodulin-dependent protein kinase type II delta chain (CAMK2d, UniProt ID Q13557), and Calcium-calmodulin-dependent protein kinase type IV (CAMK4, UniProt ID Q16566).
---------------------	--

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit [www.kinexusproducts.ca](http://www.kinexusproducts.ca) or contact us at 1-866-KINASES (546-2737)