# PE-01ACP95-P

## CREB1 (123-135) KinSub Peptide Powder

13-mer kinase substrate peptide for assaying CREB1

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

Email: info@kinexus.ca
Phone: 604-323-2547

## Target Protein

| | |
|---|---|
| **Name Long:** | cAMP-response element-binding protein 1 |
| **Name Alias:** | CAMP-response element binding protein; CREB1; CREB-1 |
| **Species Origin:** | Human |
| **UniProt ID:** | P16220 |

## Peptide Structure

| | |
|---|---|
| **Peptide Name:** | CREB1 (123-135) KinSub |
| **Peptide Origin:** | Based on phosphosite in CREB transcription factor |
| **Peptide Sequence Location:** | K123-R135 |
| **Peptide Sequence:** | KRREILSRRPSYR |
| **Peptide N-Terminus:** | Free amino |
| **Peptide C-Terminus:** | Acid |
| **Peptide Modifications Other:** | None |

## Production

| | |
|---|---|
| **Peptide Production Method:** | Solid-phase peptide synthesis |
| **Calculated Peptide Mass:** | 1717 |
| **% Peptide Purity:** | > 95 |
| **Peptide Appearance:** | White powder |
| **Peptide Form:** | Solid |
| **Peptide Solubility:** | Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer |
| **Lot Number:** | C50-58 |
| **Amount:** | 1 mg |
| **Storage Conditions:** | Frozen at -20℃ |
| **Storage Stability:** | Over 1 year at -20℃ |

## Applications

| | |
|---|---|
| **Product Use:** | 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 kinase type I gamma (CAMK1g, UniProt ID Q96NX5), Calcium-calmodulin-dependent protein kinase type IV (CAMK4, UniProt ID Q16566), cAMP-dependent protein kianse (PKA) and protein kinase C-alpha (PKCa, UniProt ID P17252). |