

PE-01AHV95-P

KinSub1RPRSP Peptide Powder

15-mer kinase substrate peptide for assaying CaMKK2



KINEXUS

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Target Protein

Name Long:	Calcium/calmodulin-dependent protein kinase kinase 2
Name Alias:	Calcium/calmodulin-dependent protein kinase; Calcium/calmodulin-dependent protein kinase kinase 2, beta; CaM-kinase kinase beta; CAMKK; CaMKK beta; CAMKKB; KIAA0787; KKCC2; MGC15254
UniProt ID:	Q96RR4

Peptide Structure

Peptide Name:	KinSub1RPRSP
Peptide Origin:	KinSub1RPRSP was originally identified using a microarray with peptides that were predicted as optimal substrates for 500 human protein kinases with a proprietary algorithm developed at Kinexus with our academic partners.
Peptide Sequence Location:	Not applicable
Peptide Sequence:	GGRGRPRSPCGGGSG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1356.5
% 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
Amount:	1 mg
Storage Conditions:	Frozen at -20°C
Storage Stability:	Over 1 year at -20°C

Applications

Product Use:	For assaying the phosphotransferase activity of Calcium/calmodulin-dependent protein kinase kinase 2 (CaMKK2, UniProt ID Q96RR4). The KinSub1RPRSP peptide demonstrated moderate phosphotransferase activity with CaMKK2, and exhibited very high specificity when assayed with over 200 other protein kinases. A listing of other kinases that show appreciable phosphotransferase activity towards this peptide are listed in Table 1.
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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 or contact us at 1-866-KINASES (546-2737)