

PE-01AKF95-P

KinSub2RRLSF Peptide Powder

15-mer kinase substrate peptide for assaying CaMK4 (CaMPK4)



KINEXUS

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Target Protein

Name Long:	Calcium/calmodulin-dependent protein-serine kinase 4
Name Alias:	Brain Ca ⁺⁺ -calmodulin-dependent protein kinase type IV; Calcium/calmodulin-dependent protein kinase IV; Calcium/calmodulin-dependent protein kinase type IV catalytic chain; Calspermin; CAM kinase- GR; CAM kinase IV; CAM kinase-GR; CaMK IV; CAMK4; Kinase CaMK4; CaMK-GR; CaMKIV; KCC4 CaMK IV; MGC36771; CCDS4103.1; ENSG00000152495
UniProt ID:	Q16566

Peptide Structure

Peptide Name:	KinSub2RRLSF
Peptide Origin:	KinSub2RRLSF 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:	GFLSRRLSFCNFKHG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1768.1
% 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-serine kinase 4 (CaMK4, UniProt ID Q16566). The KinSub2RRLSF peptide demonstrated medium phosphotransferase activity with TXK, and exhibited moderate 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.

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