

PE-01AKU95-P

KinSub4RRDSP Peptide Powder

15-mer kinase substrate peptide for assaying CDK5



KINEXUS

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Target Protein

Name Long:	Cyclin-dependent protein-serine kinase 5
Name Alias:	Cell division protein kinase 5; CRK6; PSSALRE; TAU protein kinase II; TPKII; ENSG00000164885
UniProt ID:	Q00535

Peptide Structure

Peptide Name:	KinSub4RRDSP
Peptide Origin:	KinSub4RRDSP 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:	GFRGRRDSPRKKMHG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1784.1
% 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 Cyclin-dependent protein-serine kinase 5 (CDK5, UniProt ID Q00535). The KinSub4RRDSP peptide demonstrated very high phosphotransferase activity with CHK2, and exhibited very low 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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