

PE-01AKE95-P

KinSub2RRKSF Peptide Powder

15-mer kinase substrate peptide for assaying p70S6K (S6Ka, RPS6KB1)



KINEXUS

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Target Protein

Name Long:	Ribosomal protein S6 kinase beta-1; Ribosomal protein S6 kinase 1
Name Alias:	RPS6KB1; KS6B1; Ps6K; p70(S6K)-alpha; Ribosomal protein S6 kinase I; RPS6KB1; S6K; S6K1; STK14A
UniProt ID:	P23443

Peptide Structure

Peptide Name:	KinSub2RRKSF
Peptide Origin:	KinSub2RRKSF 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:	HGGFRRKSF CGSGGY
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1614.8
% 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 Ribosomal protein S6 kinase beta-1; Ribosomal protein S6 kinase 1 (p70S6K, UniProt ID P23443). The KinSub2RRKSF peptide demonstrated medium phosphotransferase activity with TXK, and exhibited 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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