

# PE-01AKG95-P

## KinSub2RRMSF Peptide Powder

15-mer kinase substrate peptide for assaying MSK1 (RPS6KA5)



# KINEXUS

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

Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547

### Target Protein

<b>Name Long:</b>	Mitogen & stress-activated protein-serine kinase 1; Ribosomal protein S6 kinase alpha 5
<b>Name Alias:</b>	90 kDa ribosomal protein S6 kinase, , polypeptide 5; 90 kDa ribosomal protein S6 kinase, KS6A5; Kinase MSK1; KS6A5; MGC1911; MSPK1; Nuclear mitogen- and stress-activated protein kinase-1; Polypeptide V; Ribosomal protein S6 kinase; RLPK; RPS6KA5; MGC1911; MSPK1; RLPK; CCDS9893.1; ENSG00000100784
<b>UniProt ID:</b>	O75582

### Peptide Structure

<b>Peptide Name:</b>	KinSub2RRMSF
<b>Peptide Origin:</b>	KinSub2RRMSF 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.
<b>Peptide Sequence Location:</b>	Not applicable
<b>Peptide Sequence:</b>	GGRGRRMSFGFGGHY
<b>Peptide N-Terminus:</b>	Free amino
<b>Peptide C-Terminus:</b>	Amide
<b>Peptide Modifications Other:</b>	None

### Production

<b>Peptide Production Method:</b>	Solid-phase peptide synthesis
<b>Calculated Peptide Mass:</b>	1640.9
<b>% Peptide Purity:</b>	> 95
<b>Peptide Appearance:</b>	White powder
<b>Peptide Form:</b>	Solid
<b>Peptide Solubility:</b>	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
<b>Amount:</b>	1 mg
<b>Storage Conditions:</b>	Frozen at -20°C
<b>Storage Stability:</b>	Over 1 year at -20°C

### Applications

<b>Product Use:</b>	For assaying the phosphotransferase activity of Mitogen & stress-activated protein-serine kinase 1; Ribosomal protein S6 kinase alpha 5 (MSK1, UniProt ID O75582). The KinSub2RRMSF peptide demonstrated high phosphotransferase activity with Pim1, 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.
---------------------	--

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](http://www.kinexusproducts.ca) or contact us at 1-866-KINASES (546-2737)