

# PE-01ALC95-P

## KinSub5RRKSF Peptide Powder

15-mer kinase substrate peptide for assaying ALK1



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Serine/threonine-protein kinase receptor R3
<b>Name Alias:</b>	Activin A receptor type II-like 1; Activin receptor-like kinase 1; ACVL1; ACVRL1; ACVRLK1; ALK-1; HHT; HHT2; Kinase ALK1; ORW2; SKR3; TGF-B superfamily receptor type I; TSR-I
<b>UniProt ID:</b>	P37023

### Peptide Structure

<b>Peptide Name:</b>	KinSub5RRKSF
<b>Peptide Origin:</b>	KinSub5RRKSF 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>	GGRGRRKSF CGGGGG
<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>	1407.6
<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 Serine/threonine-protein kinase receptor R3 (ALK1, UniProt ID P37023). The KinSub5RRKSF peptide demonstrated high phosphotransferase activity with ALK1, and exhibited medium 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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