

# PE-01AHT95-P

## KinSub1RPKSF Peptide Powder

15-mer kinase substrate peptide for assaying Plk1 (PLK)



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Polo-like protein-serine kinase 1
<b>Name Alias:</b>	ADRB2; Kinase PLK1; PLK; PLK-1; Polo-like kinase 1; Serine- threonine protein kinase 13; STPK13; CCDS10616; ENSG00000166851
<b>UniProt ID:</b>	P53350

### Peptide Structure

<b>Peptide Name:</b>	KinSub1RPKSF
<b>Peptide Origin:</b>	KinSub1RPKSF 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>	GGRSRPKSFCGGGGG
<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>	1378.5
<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 Polo-like protein-serine kinase 1 (Plk1, UniProt ID P53350). The KinSub1RPKSF peptide demonstrated medium phosphotransferase activity with Plk1, 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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