

PE-01AHJ95-P

KinSub1RDGSP Peptide Powder

15-mer kinase substrate peptide for assaying MUSK



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Target Protein

Name Long:	Muscle, skeletal receptor tyrosine-protein kinase
Name Alias:	Muscle specific tyrosine kinase receptor
UniProt ID:	O15146

Peptide Structure

Peptide Name:	KinSub1RDGSP
Peptide Origin:	KinSub1RDGSP 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:	GGRGRDGSPCGKGIG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1372.5
% 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 Muscle, skeletal receptor tyrosine-protein kinase (MUSK, UniProt ID O15146). The KinSub1RDGSP peptide demonstrated high phosphotransferase activity with CDK2, and exhibited very high 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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