

PE-01AJJ95-P

KinSub1RRLSF Peptide Powder

15-mer kinase substrate peptide for assaying PAK5 (PAK7)



KINEXUS

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Target Protein

Name Long:	p21-activated kinase 5; Protein-serine/threonine kinase PAK 7
Name Alias:	KIAA1264; P21 protein (Cdc42/Rac)-activated kinase 7; P21-activated kinase 7; PAK 7; PAK-5; PAK7; PAK-7; MGC26232; RP5-1119D9_3; ENSG00000101349; KIAA1264
UniProt ID:	Q9P286

Peptide Structure

Peptide Name:	KinSub1RRLSF
Peptide Origin:	KinSub1RRLSF 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:	GGLGRRLSFGGFGGG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1393.6
% 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 p21-activated kinase 5; Protein-serine/threonine kinase PAK7 (UniProt ID Q9P286). The KinSub1RRLSF peptide demonstrated high phosphotransferase activity with PAK5 (PAK7), 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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