PE-01AHS95-P

KinSub1RLLSP Peptide Powder

15-mer kinase substrate peptide for assaying NLK

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Target Protein

Name Long:	Serine/threonine protein kinase NLK
Name Alias:	Kinase NLK; LAK1; Nemo-like kinase
UniProt ID:	Q9UBE8

Peptide Structure

Peptide Name:	KinSub1RLLSP
Peptide Origin:	KinSub1RLLSP 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:	GGRSRLLSPCGGGYG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1435.6
% 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 Serine/threonine protein kinase NLK (UniProt ID Q9UBE8). The KinSub1RLLSP peptide demonstrated moderate phosphotransferase activity with NLK, and exhibited 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.