PE-01ALJ95-P
KinSub7RRGSF Peptide Powder
15-mer kinase substrate peptide for assaying NEK6

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Target Protein

Name Long:	NIMA (never-in-mitosis)-related protein-serine kinase 6
Name Alias:	Kinase Nek6; NIMA; NIMA (never in mitosis gene a)-related expressed kinase 6; NIMA (never in mitosis gene a)-related kinase 6; NIMA-related kinase 6; NIMA-related serine/threonine kinase; Putative serine-threonine protein kinase; SID6-1512
UniProt ID:	Q9HC98

Peptide Structure

Peptide Name:	KinSub7RRGSF
Peptide Origin:	KinSub7RRGSF 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:	GFRSRRGSFRGGGHG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1589.8
% 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 NIMA (never-in-mitosis)-related protein-serine kinase 6 (NEK6, UniProt ID Q9HC98). The KinSub7RRGSF peptide demonstrated high phosphotransferase activity with PKCi, 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.

This product is for in vitro research use only and is not intended for use in humans or animals.