PE-01AJZ95-P

KinSub2RPLSP Peptide Powder

15-mer kinase substrate peptide for assaying COT

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Target Protein

Name Long:	Osaka thyroid oncogene protein-serine kinase (Tpl2); Mitogen-activated protein kinase kinase kinase 8
Name Alias:	FLJ10486; M3K8; MAP3K8; Tpl2; TPL2; TPL-2; tumour progression locus 2; COT; ESTF; EST; Tpl-2; c-COT; ENSG00000107968
UniProt ID:	P41279

Peptide Structure

Peptide Name:	KinSub2RPLSP
Peptide Origin:	KinSub2RPLSP 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:	GGRGRPLSPGKKGGG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1379.6
% 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 Osaka thyroid oncogene protein-serine kinase (Tpl2); Mitogen-activated protein kinase kinase kinase 8 (COT, UniProt ID P41279). The KinSub2RPLSP peptide demonstrated high phosphotransferase activity with COT, 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.