PE-01AKM95-P

KinSub3RPLSP Peptide Powder

15-mer kinase substrate peptide for assaying PKCm (PRKCM, PRKD1, PKD1)

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Target Protein

Name Long:	Protein-serine kinase C mu (Protein kinase D)
Name Alias:	Kinase PKD1; KPCD1; NPKC-mu; PKCM; PKC-mu; PKD; PRKCM; PRKD1; Protein kinase D1; Protein kinase C, mu type; Protein kinase D; ENSG00000184304
UniProt ID:	Q15139

Peptide Structure

Peptide Name:	KinSub3RPLSP
Peptide Origin:	KinSub3RPLSP 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:	GGRSRPLSPGKGGYG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1444.6
% 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 Protein-serine kinase C mu (Protein kinase D) (PKD1, UniProt ID Q15139). The KinSub3RPLSP peptide demonstrated medium phosphotransferase activity with Brk, 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.