PE-01AKA95-P
KinSub2RRDSF Peptide Powder
15-mer kinase substrate peptide for assaying RSK1 (RPS6KA1, p90RSK)

Target Protein

Name Long:	Ribosomal S6 protein-serine kinase 1; Ribosomal protein S6 kinase alpha 2
Name Alias:	90 kDa ribosomal protein S6 kinase 1; HU-1; Kinase p90RSK1; KS6A1; KS6AA; MAPKAPK1A; P90RSK1; RPS6KA1; S6K-alpha 1; CCDS284.1; ENSG00000117676
UniProt ID:	Q15418

Peptide Structure

Peptide Name:	KinSub2RRDSF
Peptide Origin:	KinSub2RRDSF 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:	GGRGRRDSFCGGGYG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1500.6
% 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 Ribosomal S6 protein-serine kinase 1; Ribosomal protein S6 kinase alpha 2 (RSK1, UniProt ID Q15418). The KinSub2RRDSF peptide demonstrated high phosphotransferase activity with Brk, 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.

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