PE-04AKT99-P

p70S6K (249-255) pT252 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on p70S6K (S6Ka, RPS6KB1)

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Target Protein

Name Long:	Ribosomal protein S6 kinase beta-1; Ribosomal protein S6 kinase 1
Name Alias:	RPS6KB1; KS6B1; Ps6K; p70(S6K)-alpha; Ribosomal protein S6 kinase I; RPS6KB1; S6K; S6K1; STK14A
Species Origin:	Human
UniProt ID:	P23443

Peptide Structure

Peptide Name:	p70S6K (249-255) pT252
Peptide Origin:	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Sequence Location:	V249-G255
Peptide Sequence:	VTH(pT)FCG(bA)C
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	Phosphorylated; Includes beta-alanine-cysteine at C-terminus for coupling to KLH or thio-agarose

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1018.0
Observed Peptide Mass:	1015.2
% Peptide Purity:	98.16
Peptide Appearance:	White powder
Peptide Form:	Solid
Peptide Solubility:	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
Lot Number:	KMP04CAW-88
Amount:	1 mg
Storage Conditions:	Frozen at -20°C
Storage Stability:	Over 1 year at -20°C

Applications

Product Use:	Services as a blocking peptide for use with the p70S6K-pT252 rabbit polyclonal antibody (Cat. No.: PK744) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.