PE-04AON99-P

PERK (889-895) pT982 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on EIF2AK3 (PERK)

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Target Protein

Name Long:	Eukaryotic translation initiation factor 2-alpha kinase 3
Name Alias:	DKFZp781H1925; E2AK3; EIF2AK3; Eukaryotic translation initiation factor 2-alpha kinase 3; HsPEK; HRI; Kinase PEK; Pancreatic eIF2-alpha kinase; PRKR-like endoplasmic reticulum kinase
Species Origin:	Human
UniProt ID:	Q9NZJ5

Peptide Structure

Peptide Name:	PERK (889-895) pT982
Peptide Origin:	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Sequence Location:	A889-V895
Peptide Sequence:	ARH(pT)GQV(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:	1021.0
Observed Peptide Mass:	1021.0
% Peptide Purity:	99.49
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:	KMP04CAX-77
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 EIF2AK3-pT982 rabbit polyclonal antibody (Cat. No.: PK604) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.