PE-04AXB80-P

PKR (443-457) pT446+pT451+pY454+pS456 Peptide Powder

15-mer immunogen and phosphatase substrate phosphopeptide based on PKR1 (PRKR; EIF2AK2)

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Target Protein

Name Long:	Double-stranded RNA-dependent protein-serine kinase; Interferon-induced, double-stranded RNA-activated protein kinase
Name Alias:	ADRB2; E2AK2; EIF2aK; EIF2AK1; EIF2AK2; Eukaryotic translation initiation factor 2-alpha kinase 2; Interferon-inducible RNA-dependent protein kinase; P1,eIF-2A protein kinase; TIK; MGC126524; ENSG00000055332
Species Origin:	Human
UniProt ID:	P19525

Peptide Structure

Peptide Name:	PKR (443-457) pT446+pT451+pY454+pS456
Peptide Origin:	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Sequence Location:	G443-P457
Peptide Sequence:	GKR(pT)RSKG(pT)LR(pY)M(pS)P
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	Phosphorylated

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	2273.2
Observed Peptide Mass:	2272.6
% Peptide Purity:	79
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:	KLP04CAF-07
Amount:	1 mg
Storage Conditions:	Frozen at -20°C
Storage Stability:	Over 1 year at -20°C

Applications

Product Use:	This phosphopeptide may be useful as a substrate for screening the phosphatase activity of protein phosphatases.