PE-04ACN90-P

CDKL5 (168-174) pY171 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on CDKL5 (STK9)

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Target Protein

Name Long:	Cyclin-dependent kinase-like 5; Serine-threonine-protein kinase 9
Name Alias:	Cyclin-dependent kinase-like 5; Kinase CdkL5; STK9
Species Origin:	Human
UniProt ID:	O76039

Peptide Structure

Peptide Name:	CDKL5 (168-174) pY171
Peptide Origin:	In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Sequence Location:	Y168-T174
Peptide Sequence:	YTE(pY)VAT(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:	1100.1
Observed Peptide Mass:	1098.5
% Peptide Purity:	89.4
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:	KMP04CAT-11
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 CDKL5-pY171 rabbit polyclonal antibody (Cat. No.: PK576) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.