

# PE-04ADV95-P

## CDK1 (11-17) pT14 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on CDK1 (CDC2)



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Cyclin-dependent protein-serine kinase 1; Cell division control protein 2 homologue
<b>Name Alias:</b>	Cdc2; CDC28; CDC28A; CDC2A; Cell division control protein 2; Cell division cycle 2, G1 to S and G2 to M; Cyclin-dependent kinase 1; P34 protein kinase; Kinase Cdc2; MPF; DKFZp686L20222; MGC111195; ENSG00000170312
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P06493

### Peptide Structure

<b>Peptide Name:</b>	CDK1 (11-17) pT14
<b>Peptide Origin:</b>	In the protein kinase catalytic domain in subdomain I.
<b>Peptide Sequence Location:</b>	G11-V17
<b>Peptide Sequence:</b>	GEG(pT)YGV(bA)C
<b>Peptide N-Terminus:</b>	Free amino
<b>Peptide C-Terminus:</b>	Amide
<b>Peptide Modifications Other:</b>	Phosphorylated; Includes beta-alanine-cysteine at C-terminus for coupling to KLH or thio-agarose

### Production

<b>Peptide Production Method:</b>	Solid-phase peptide synthesis
<b>Calculated Peptide Mass:</b>	934.9
<b>Observed Peptide Mass:</b>	935.9
<b>% Peptide Purity:</b>	95.4
<b>Peptide Appearance:</b>	White powder
<b>Peptide Form:</b>	Solid
<b>Peptide Solubility:</b>	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
<b>Lot Number:</b>	KMP04CAU-01
<b>Amount:</b>	1 mg
<b>Storage Conditions:</b>	Frozen at -20 °C
<b>Storage Stability:</b>	Over 1 year at -20 °C

### Applications

<b>Product Use:</b>	Serves as a blocking peptide for use with the CDK1-pT14 rabbit polyclonal antibody (Cat. No.: PK559) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.
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This product is for in vitro research use only and is not intended for use in humans or animals.

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