

# PE-01ADT95-P

## CDK1 (6-20) KinSub Peptide Powder

15-mer kinase substrate peptide for assaying 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 (6-20) KinSub
<b>Peptide Origin:</b>	Based on CDK1 phosphosite located in catalytic domain I
<b>Peptide Sequence Location:</b>	K6-K20
<b>Peptide Sequence:</b>	KVEKIGEGTYGVVYK
<b>Peptide N-Terminus:</b>	Free amino
<b>Peptide C-Terminus:</b>	Amide
<b>Peptide Modifications Other:</b>	None

### Production

<b>Peptide Production Method:</b>	Solid-phase peptide synthesis
<b>Calculated Peptide Mass:</b>	1668.9
<b>% Peptide Purity:</b>	> 95
<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>	S30-58
<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>	For assaying the phosphotransferase activities of Src oncogene-encoded protein-tyrosine kinase (UniProt ID P12931), Proto-oncogene tyrosine-protein kinase FYN (Fyn, UniProt ID P06241), Tyrosine-protein kinase Lyn (Lyn, UniProt ID P07948), and Proto-oncogene tyrosine-protein kinase Yes (Yes, UniProt ID P07947). CDK1 (6-20) KinSub is recognized 12X better by GSK3a than CDK2/CLNA, 7X better by ERK2 and comparably by p38a, JNK1, ERK5 and CDK5/p35.
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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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