

PE-01AHD95-P

KinSub1FPLSP Peptide Powder

15-mer kinase substrate peptide for assaying CDK2



KINEXUS

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

Name Long:	Cyclin-dependent protein-serine kinase 2
Name Alias:	Cyclin-dependent kinase 2; Kinase Cdk2; p33 protein kinase; p33(CDK2); CCDS8898.1; ENSG00000123374
UniProt ID:	P24941

Peptide Structure

Peptide Name:	KinSub1FPLSP
Peptide Origin:	KinSub1FPLSP was originally identified using a microarray with peptides that were predicted as optimal substrates for 500 human protein kinases with a proprietary algorithm developed at Kinexus with our academic partners.
Peptide Sequence Location:	Not applicable
Peptide Sequence:	GGGSFPLSPGKKGGG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1301.5
% Peptide Purity:	> 95
Peptide Appearance:	White powder
Peptide Form:	Solid
Peptide Solubility:	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
Amount:	1 mg
Storage Conditions:	Frozen at -20°C
Storage Stability:	Over 1 year at -20°C

Applications

Product Use:	For assaying the phosphotransferase activity of Cyclin-dependent protein-serine kinase 2 (CDK2, UniProt ID P24941). The KinSub1FPLSP peptide demonstrated high phosphotransferase activity with CDK2, and exhibited very high specificity when assayed with over 200 other protein kinases. A listing of other kinases that show appreciable phosphotransferase activity towards this peptide are listed in Table 1.
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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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