PE-04ASE99-P

CDK1 (157-172) pY160+pT161+pT166+pY169 Peptide Powder

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

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Target Protein

Name Long:	Cyclin-dependent protein-serine kinase 1; Cell division control protein 2 homologue
Name Alias:	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
Species Origin:	Human
UniProt ID:	P06493

Peptide Structure

Peptide Name:	CDK1 (157-172) pY160+pT161+pT166+pY169
Peptide Origin:	In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Sequence Location:	I157-P172
Peptide Sequence:	IRV(pY)(pT)HEVV(pT)LW(pY)RSP
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	Phosphorylated

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	2512.4
Observed Peptide Mass:	2513.2
% Peptide Purity:	> 98
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:	KLP04CAA-13
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.