



CAK1 (2 - 368)

Catalog Number (DU Number):
DU1089

Accession:
U60192

Expression
bacteria

Terminus and Tag:
N-Term GST Uncleaved
C-Term 6His Uncleaved

Purification Method:
GSH Sepharose

Enzymatic Assay Format:
Two step assay in which CAK1 activates CDK2 [DU 1043] / cyclin A2 [DU 1064]. The activity of CDK2 / cyclin A2 is then assayed against Histone H1 as a substrate (final concentration of 1 mg/ml) in the standard filter binding assay.

Enzymatic Buffer:
50 mM Tris-HCl pH 7.5, 0.1 mM EGTA, 0.1 % 2-mercaptoethanol, 0.1 mM sodium vanadate, 10 mM magnesium acetate

Enzymatic Substrate:
Histone H1

Calculated Molecular Mass:
Mono-Isotopic Mass: 69,801.22
Average Mass: 69,846.38

Protein Activity:
Constitutively Active

Purity:
70 %

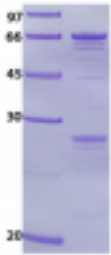
Storage Buffer:
50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA, 0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 0.2 mM PMSF, 1 mM Benzamidine.

Storage Temperature:
-70 °C

Theoretical pI:
5.88

Gel Information :

Gel Image 1:



Native Sequence:

Amino acids K2 – P368 (end) of yeast CAK1. Residue K232 of fusion protein is equivalent to K2 of the native enzyme. The GST tag is located at residues 1 - 220 and the His(6) tag is located at residues 601 – 606. The following sequence is present after the CAK1 sequence and before the His(6) tag, GS, residues 599 and 600.

Protease Cleavage:

PreScission (LEVLFGGPL) at residues 221 – 229

Cloning Sites:

BamH1 and EcoR1 site of pGEX6P-1

Price per aliquot (100µg):

£100.00