

Recombinant Human CDC-like Kinase 1, GST-tagged

Cat. No. CLK1-676H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CDC-Like Kinase 1 catalytic domain (aa 129-484) with GST tag was expressed in <i>E. coli</i> . MW = 70.1 kDa.
Species	Human
Source	E.coli
Protein Length	129-484 a.a.
Description	CLK/STY is a member of the CDC2-like (or LAMMER) family of dual specificity protein kinases. The phosphorylated serine/arginine-rich (SR) proteins involves in the pre-mRNA processing and releasing through nucleus into nucleoplasm. CLK/STY, which could phosphorylates the specific SR proteins, such as ASF/SF2, may directly regulates the activity and compartmentalization of SR splicing factors.
Formulation	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.05 mM EDTA + 0.05% Triton X-100 + 2mM DTT + 50% glycerol.
Specific Activity	79 nmole of phosphate transferred to myelin basic protein (MBP) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 8.33 g/ml.
Storage & Stability	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

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Gene Name	CLK1 CDC-like kinase 1 [Homo sapiens]
Synonyms	CLK1; CDC-like kinase 1; CLK; STY; CLK/STY; CDC28/CDC2-like kinase; protein tyrosine kinase STY; dual specificity protein kinase CLK1; EC 2.7.12.1
Gene ID	1195
mRNA Refseq	NM_001162407
Protein Refseq	NP_001155879
MIM	601951
UniProt ID	P49759
Chromosome Location	2q33
Function	ATP binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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