Recombinant Human CDC-Like Kinase 2, GST-tagged

Cat. No. CLK2-1005H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CLK2 (137-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	137-end a.a.
Description	CDC-like kinase 2 (CLK2) a family of autophosphorylating kinases termed CLK (CDC2/CDC28-like kinases) was shown to phosphorylate SR proteins and to influence alternative splicing in overexpression systems. Recent findings demonstrated that the CLK kinases activate PTP-1B family members, and this phosphatase may be an important cellular target for CLK action. Mutations in the clk-2 proteins affect organismal features such as development, behavior, reproduction, and aging as well as cellular features such as the cell cycle, apoptosis, the DNA replication checkpoint, and telomere length.
Applications	Kinase Assay; Western Blot
Molecular Weight	68 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT,

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	0.1 mM EDTA, 0.1 mM EDTA, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	52 nmol/min/mg
Purity	> 80 %
Concentration	0.1 ug/ul
Sequences	137-end
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	mRNA processing

GENE INFORMATION

Gene Name	CLK2 CDC-like kinase 2 [Homo sapiens]
Official Symbol	CLK2
Synonyms	CLK2; CDC-like kinase 2; hCLK2; MGC61500; dual specificity protein kinase CLK2; CLK kinase; OTTHUMP00000034063; OTTHUMP00000034064; THUMP00000034065; clk2; Dual specificity protein kinase CLK2; EC 2.7.12.1
Gene ID	1196
mRNA Refseq	NM_003993
Protein Refseq	NP_003984

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MIM	602989
UniProt ID	P49760
Chromosome Location	1q21
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; protein tyrosine kinase activity

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