

Recombinant Human CDKL5, GST-tagged

Cat. No. CDKL5-11060H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDKL5 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	N-term-301a.a.
Description	The protein encoded by this gene shares strong similarity with <i>Saccharomyces cerevisiae</i> Cdc23, a protein essential for cell cycle progression through the G2/M transition. This protein is a component of anaphase-promoting complex (APC), which is composed of eight protein subunits and highly conserved in eukaryotic cells. APC catalyzes the formation of cyclin B-ubiquitin conjugate that is responsible for the ubiquitin-mediated proteolysis of B-type cyclins. This protein and 3 other members of the APC complex contain the TPR (tetratricopeptide repeat), a protein domain important for protein-protein interaction.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	CDKL5 cyclin-dependent kinase-like 5 [Homo sapiens]
Official Symbol	CDKL5
Synonyms	CDKL5; cyclin-dependent kinase-like 5; serine/threonine kinase 9 , STK9; EIEE2; serine/threonine kinase 9; serine/threonine-protein kinase 9; cyclin dependent kinase 5 transcript; ISSX; STK9;
Gene ID	6792
mRNA Refseq	NM_003159
Protein Refseq	NP_003150
MIM	300203
UniProt ID	O76039
Chromosome Location	Xp22
Function	ATP binding; Rac GTPase binding; cyclin-dependent protein kinase activity; kinase activity; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity;

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