

Recombinant Human CDKN2B, GST-tagged

Cat. No. CDKN2B-11063H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDKN2B protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-138a.a.
Description	The protein encoded by this gene shares strong similarity with <i>Saccharomyces cerevisiae</i> protein Cdc27, and the gene product of <i>Schizosaccharomyces pombe</i> nuc 2. This protein is a component of anaphase-promoting complex (APC), which is composed of eight protein subunits and highly conserved in eucaryotic 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. This protein was shown to interact with mitotic checkpoint proteins including Mad2, p55CDC and BUBR1, and thus may be involved in controlling the timing of mitosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
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

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GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	CDKN2B cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) [Homo sapiens]
Official Symbol	CDKN2B
Synonyms	CDKN2B; cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4); cyclin-dependent kinase 4 inhibitor B; CDK4I; INK4B; MTS2; P15; p15INK4b; TP15; MTS-2; p14-INK4b; p14_INK4B; p15-INK4b; p15_INK4B; CDK4B inhibitor; p14_CDK inhibitor; p15 CDK inhibitor; CDK inhibitory protein; multiple tumor suppressor 2; cyclin-dependent kinases 4 and 6 binding protein;
Gene ID	1030
mRNA Refseq	NM_004936
Protein Refseq	NP_004927
MIM	600431
UniProt ID	P42772
Chromosome Location	9p21
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Cyclin D associated events in G1, organism-specific biosystem; G1 Phase, organism-specific biosystem; G1 to S cell cycle control, organism-specific biosystem;

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Function

cyclin-dependent protein kinase inhibitor activity; cyclin-dependent protein kinase inhibitor activity; kinase activity; protein binding; protein kinase binding;

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