

Recombinant Human CDKN2B protein, His-tagged

Cat. No. CDKN2B-134H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDKN2B(1-138aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-138aa
Description	This gene lies adjacent to the tumor suppressor gene CDKN2A in a region that is frequently mutated and deleted in a wide variety of tumors. This gene encodes a cyclin-dependent kinase inhibitor, which forms a complex with CDK4 or CDK6, and prevents the activation of the CDK kinases, thus the encoded protein functions as a cell growth regulator that controls cell cycle G1 progression. The expression of this gene was found to be dramatically induced by TGF beta, which suggested its role in the TGF beta induced growth inhibition. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported.
Form	1M PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH8.0), added with 300 mM Imidazole and 0.7% sarcosyl, 15% glycerol.
AA Sequence	MREENKGMPSSGGGSDEGLASAAARGLVEKVRQLLEAGADPNGVNRFGRRAIQVM MMGSARVAELLLLHGAEPNCA DPATLTRPVHDAAREGFLDTLVVLHRAGARLDVR DAWGRLPVDLAEERGHHRDVAGYLRTATGD

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Storage	Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months. Avoid freeze thaw cycles.
Shipping	The product is shipped with ice packs. Upon receipt, store it immediately at -20 centigrade to -80 centigrade.
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

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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;

Function

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

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