

Recombinant Human CDKN1C

Cat. No. CDKN1C-30575TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment (amino acids 1-100) of Human p57 Kip2 with proprietary 26 kDa tag; 100 amino acids (Predicted MW 11.45 kDa), 36.63 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene is imprinted, with preferential expression of the maternal allele. The encoded protein is a tight-binding, strong inhibitor of several G1 cyclin/Cdk complexes and a negative regulator of cell proliferation. Mutations in this gene are implicated in sporadic cancers and Beckwith-Wiedemann syndrome, suggesting that this gene is a tumor suppressor candidate. Three transcript variants encoding two different isoforms have been found for this gene.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Expressed in the heart, brain, lung, skeletal muscle, kidney, pancreas and testis. High levels are seen in the placenta while low levels are seen in the liver.
Biological activity	useful for Antibody Production and Protein Array
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.31% Glutathione Note: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSDASLRSTSTMERLVARGTFPVLVRTSACRSLFGPVDHEELSRELQARLAELNAE DQNRWDYDFQQDMPLRGPGRLLQWTEVSDSDSVPAFYRETVQVGRC
Sequence Similarities	Belongs to the CDI family.

GENE INFORMATION

Gene Name	CDKN1C cyclin-dependent kinase inhibitor 1C (p57, Kip2) [Homo sapiens]
Official Symbol	CDKN1C
Synonyms	CDKN1C; cyclin-dependent kinase inhibitor 1C (p57, Kip2); Beckwith Wiedemann syndrome , BWCR, BWS; cyclin-dependent kinase inhibitor 1C; KIP2; P57;
Gene ID	1028
mRNA Refseq	NM_000076
Protein Refseq	NP_000067
MIM	600856
Uniprot ID	P49918

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Chromosome Location	11p15.5
Pathway	Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Endochondral Ossification, organism-specific biosystem; G1 to S cell cycle control, organism-specific biosystem;
Function	cyclin-dependent protein kinase inhibitor activity; protein binding; protein kinase inhibitor activity;

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