CDKN1C Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CDKN1C, Lysate
Full Product Name	Human CDKN1C Protein Lysate
Product Gene Name	CDKN1C lysate
Product Synonym Names	CDKN1C; BWCR; BWS; KIP2; p57; p57Kip2; WBS
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	35 kDa
OMIM	130650
3D Structure	ModBase 3D Structure for P49918
Related Product Information for CDKN1C lysate	Human CDKN1C Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of CDKN1C lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CDKN1C purchase	MBS139213 is a lysate targeting CDKN1C. Also known as Human CDKN1C Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKN1C. It may not necessarily be applicable to this product.

NCBI GI #	4557441
NCBI GeneID	1028
NCBI Accession #	NP_000067
UniProt Primary Accession #	P49918
UniProt Related Accession #	P49918
GenBank Nucleotide #	NM_000076
NCBI Official Full Name	cyclin-dependent kinase inhibitor 1C isoform a
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 1C (p57, Kip2)
NCBI Official Symbol	CDKN1C
NCBI Official Synonym Symbols	BWS; WBS; p57; BWCR; KIP2; p57Kip2
UniProt Protein Name	Cyclin-dependent kinase inhibitor 1C
UniProt Synonym Protein Names	Cyclin-dependent kinase inhibitor p57; p57Kip2

Protein Family	Cyclin-dependent kinase inhibitor
UniProt Gene Name	CDKN1C
UniProt Synonym Gene Names	KIP2
UniProt Entry Name	CDN1C_HUMAN
NCBI Protein Information	cyclin-dependent kinase inhibitor 1C; cyclin-dependent kinase inhibitor p57
NCBI Summary for CDKN1C	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 syndorome, suggesting that this gene is a tumor suppressor candidate. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]
UniProt Comments for CDKN1C	p57Kip2: Potent tight-binding inhibitor of several G1 cyclin/CDK complexes (cyclin E-CDK2, cyclin D2-CDK4, and cyclin A-CDK2) and, to lesser extent, of the mitotic cyclin B-CDC2. Negative regulator of cell proliferation. May play a role in maintenance of the non- proliferative state throughout life. 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. Belongs to the CDI family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation; Inhibitor; Nuclear receptor co-regulator; Tumor suppressor Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: cytoplasm; nucleus Molecular Function: cyclin-dependent protein kinase inhibitor activity; protein binding Biological Process: negative regulation of kinase activity; camera-type eye development; adrenal gland development; multicellular organism growth; positive regulation of transcription, DNA-dependent; regulation of mitotic cell cycle; positive regulation of transforming growth factor beta receptor signaling pathway; negative regulation of transcription from RNA polymerase II promoter; uterus development; neuron maturation; negative regulation of phosphorylation; myeloid cell differentiation; cell cycle arrest; negative regulation of transcription, DNA-dependent; kidney development; skeletal development; aging; negative regulation of epithelial cell proliferation Disease: Intrauterine Growth Retardation, Metaphyseal Dysplasia, Adrenal Hypoplasia Congenita, And Genital Anomalies; Beckwith-wiedemann Syndrome
Research Articles on CDKN1C	**1.** We report a novel CDKN1C mutation associated with features of IMAGe syndrome, but without adrenal insufficiency or metaphyseal dysplasia, and characterized by early-adulthood-onset diabetes.
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