Cyclin-Dependent Kinase 4 Inhibitor C (CDKN2C) ELISA Kit for Human

PRODUCT OVERVIEW

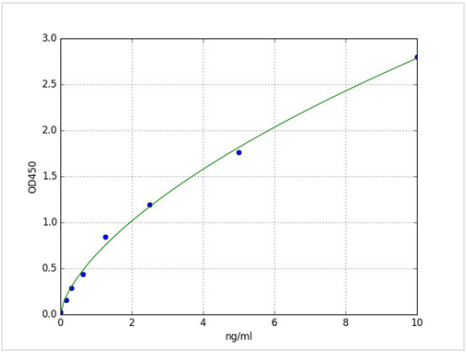
Product Name	Cyclin-dependent kinase 4 inhibitor C (CDKN2C), ELISA Kit
Full Product Name	Human Cyclin-dependent kinase 4 inhibitor C ELISA Kit
Product Gene Name	CDKN2C elisa kit
Product Synonym Names	CDKN2C/Cyclin-dependent kinase 4 inhibitor C/p18-INK6/Cyclin-dependent kinase 6 inhibitor/p18-INK4c/CDKN6/p18/CDK6 inhibitor p18/cyclin-dependent kinase inhibitor 2C/p18; inhibits CDK4
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	18,127 Da
OMIM	603369
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CDKN2C elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. anti-Human CDKN2C antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human CDKN2C antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human CDKN2C amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human CDKN2C can be calculated.
Other Notes	Small volumes of CDKN2C elisa kit 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 CDKN2C purchase	MBS763846 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclin-dependent kinase 4 inhibitor C (CDKN2C) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CDKN2C. The ELISA analytical biochemical technique of the MBS763846 kit is based on CDKN2C antibody-CDKN2C antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CDKN2C antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CDKN2C. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

Typical Data & Standard Curve

Results of a typical standard run of a Human CDKN2C ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.313	0.625	1.25	2.5	5	10
Y	OD450	0.077	0.130	0.171	0.254	0.469	0.849	1.476	2.084

Typical Testing Data of CDKN2C elisa kit



Typical Standard Curve of CDKN2C elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKN2C. It may not necessarily be applicable to this product.

NCBI GI #	17981699
NCBI GeneID	1031
NCBI Accession #	NP_523240.1
UniProt Secondary Accession #	Q8TB83
UniProt Related Accession #	P42773
GenBank Nucleotide #	NM_078626.2
NCBI Official Full Name	cyclin-dependent kinase 4 inhibitor C
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 2C
NCBI Official Symbol	CDKN2C
NCBI Official Synonym Symbols	p18; INK4C; p18-INK4C
UniProt Protein Name	Cyclin-dependent kinase 4 inhibitor C
UniProt Synonym Protein Names	Cyclin-dependent kinase 6 inhibitor; p18-INK4c; p18-INK6
Protein Family	Cyclin-dependent kinase 4 inhibitor
UniProt Gene Name	CDKN2C
UniProt Synonym Gene Names	CDKN6
UniProt Entry Name	CDN2C_HUMAN
NCBI Protein Information	cyclin-dependent kinase 4 inhibitor C
NCBI Summary for CDKN2C	The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase inhibitors. This protein has been shown to interact with CDK4 or CDK6, and prevent the activation of the CDK kinases, thus function as a cell growth regulator that controls cell cycle G1 progression. Ectopic expression of this gene was shown to suppress the growth of human cells in a manner that appears to correlate with the presence of a wild-type RB1 function. Studies in the knockout mice suggested the roles of this gene in regulating spermatogenesis, as well as in suppressing tumorigenesis. Two alternatively spliced transcript variants of this gene, which encode an identical protein, have been reported. [provided by RefSeq, Jul 2008]

UniProt Comments for CDKN2C	CDKN2C: Interacts strongly with CDK6, weakly with CDK4. Inhibits cell growth and proliferation with a correlated dependence on endogenous retinoblastoma protein RB. Heterodimer of p18 with CDK6. Highest levels found in skeletal muscle. Also found in pancreas and heart. Belongs to the CDKN2 cyclin-dependent kinase inhibitor family. Protein type: Cell cycle regulation; Inhibitor; Protein kinase, regulatory subunit Chromosomal Location of Human Ortholog: 1p32 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: cyclin-dependent protein kinase inhibitor activity; protein binding; protein kinase binding Biological Process: cell cycle arrest; G1/S transition of mitotic cell cycle; negative regulation of cell growth; negative regulation of cell proliferation; negative regulation of phosphorylation; regulation of cyclin-dependent protein kinase activity
Research Articles on CDKN2C	**1.** this studydemonstrated abundant levels of the critical negative cell-cycle regulators, p27(Kip1), its phosphorylated form, p-p27(S10), p18Ink4c, and GSK-3, in beta-cells of both adult human and mouse pancreatic islets, which contribute to maintenance of beta-cell quiescence.
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