Datasheet for ABIN7317361

CDKN2D Protein (GST tag)

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Overview

Quantity:	50 µg
Target:	CDKN2D
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CDKN2D protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human CDKN2D/p19ink4d Protein (GST Tag)(Active)
Sequence:	Met 10Leu 166
Characteristics:	A DNA sequence encoding the human CDKN2D (P55273) (Met 10Leu 166) was fused with the GST tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Immobilized human GST-CDKN2D at 10 µg/ml (100 µl/well) can bind biotinylated human GST-CDK4, The EC50 of biotinylated human GST-CDK4 is 0.52-1.2 µg/ml.

Target Details

Target:	CDKN2D
Alternative Name:	CDKN2D/p19ink4d (CDKN2D Products)

Target Details

Background:	Background: Cyclin-dependent kinase inhibitor 2D(also known as CDKN2D or p19ink4d), a member of the INK4 family of cyclin-dependent kinase (CDK) inhibitors, negatively regulates the cyclin D-CDK4/6 complexes, which promote G1/S transition by phosphorylating the retinoblastoma tumor-suppressor gene product. It is clearly shown that DNA repair is the main target of p19ink4d effect and that diminished apoptosis is a downstream event. Experiments has uncovered a role of p19INK4d as a regulator of DNA-damage-induced apoptosis and suggest that it protects cells from undergoing apoptosis by allowing a more efficient DNA repair. It has been demonstrated that p19INK4d expression enhances cell survival under genotoxic conditions. Previous work has shown that inactivation of the cyclin-dependent kinase inhibitor (CKI) p19(Ink4d) leads to progressive hearing loss attributable to inappropriate DNA replication and subsequent apoptosis of hair cells. It may also involved in male reproductive function including testicular atrophy, alteration in serum follicle stimulating hormone, qualitative increase in germ cell apoptosis, and delayed kinetics of meiotic prophase markers. Synonym: INK4D;p19;p19-INK4D
Molecular Weight:	44.9 kDa
UniProt:	P55273
Pathways:	Cell Division Cycle, Sensory Perception of Sound, Mitotic G1-G1/S Phases, Negative Regulation of intrinsic apoptotic Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.