

p19 INK4d Recombinant Protein | CDKN2D recombinant protein

p19 INK4d Protein, Human, Recombinant (GST Tag)

CATALOG #
AAA257441

HOST
E Coli

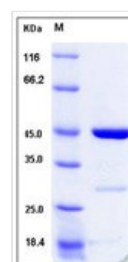
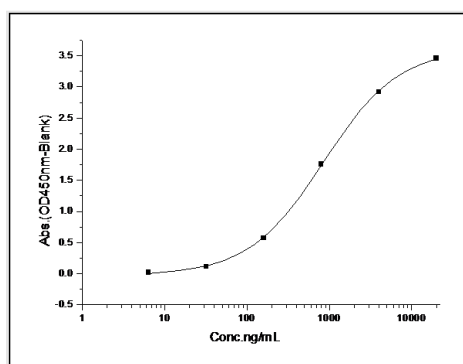
PRODUCT SYNONYMS

p19 INK4d; p19 INK4d Protein; Human; Recombinant (GST Tag); Human CDKN2D/p19ink4d Protein (GST Tag); cyclin-dependent kinase inhibitor 2D (p19; inhibits CDK4); INK4D Protein; p19 Protein; p19-INK4D Protein; CDKN2D recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.5. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	400aa
Sequence	Met10-Leu1 66
Species	Human
Tag	N-GST
Predicted N Terminal	Met
Protein Construction	JA DNA sequence encoding the human CDKN2D (P55273) (Met 10Leu 166) was fused with the GST tag at the N-terminus
Activity	Immobilized human GST-CDKN2D at 10ug/ml (100ul/well) can bind biotinylated human GST-CDK4 (Cat:10732-H09B). The EC50 of biotinylated human GST-CDK4 (Cat:10732-H09B) is 0.52-1.2ug/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES



Application Data

Application Data

Immobilized human GST-CDKN2D at 10 ug/ml (100 ul/well) can bind biotinylated human GST-CDK4 (Cat: 10732-H09B), The EC50 of biotinylated human GST-CDK4 (Cat: 10732-H09B) is 0.52-1.2 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for CDKN2D recombinant protein	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.
References	Buchold GM, et al. (2007) Mice lacking cyclin-dependent kinase inhibitor p19Ink4d show strain-specific effects on male reproduction. Mol Reprod Dev. 74 (8): 1008-20. Laine H, et al. (2007) p19(Ink4d) and p21(Cip1) collaborate to maintain the postmitotic state of auditory hair cells, their codeletion leading to DNA damage and p53-mediated apoptosis. J Neurosci. 27 (6): 1434-44.Ceruti JM, et al. (2005) Induction of p19INK4d in response to ultraviolet light improves DNA repair and confers resistance to apoptosis in neuroblastoma cells. Oncogene. 24 (25): 4065-80.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502753
NCBI GeneID	1032
NCBI Accession #	NP_001791.1
NCBI GenBank Nucleotide #	NM_001800.3
UniProt Accession #	P55273; Q13102; Q6FGE9
Molecular Weight	17,700 Da
NCBI Official Full Name	cyclin-dependent kinase 4 inhibitor D
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)
NCBI Official Symbol	CDKN2D
NCBI Official Synonym Symbols	p19; INK4D; p19-INK4D
NCBI Protein Information	cyclin-dependent kinase 4 inhibitor D; CDK inhibitor p19INK4d; inhibitor of cyclin-dependent kinase 4d; cyclin-dependent kinase 4 inhibitor D p19; cell cycle inhibitor, Nur77 associating protein
UniProt Protein Name	Cyclin-dependent kinase 4 inhibitor D
UniProt Gene Name	CDKN2D
UniProt Entry Name	CDN2D_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/cdkn2d-recombinant-protein-e-coli/257441>