

Recombinant Human Cyclin-Dependent Kinase Inhibitor 3, His-tagged

Cat. No. CDKN3-942H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CDKN3 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 25.9 kDa (232aa).
Species	Human
Source	E.coli
Description	Cyclin-dependent kinase inhibitor 3, also known CDKN3, belongs to the dual specificity protein phosphatase family. It was identified as a cyclin-dependent kinase inhibitor, and has been shown to interact with, and dephosphorylate CDK2 kinase, thus prevent the activation of CDK2 kinase. Also CDKN3 is important in cell cycle regulation.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.1M NaCl.
Purity	> 90% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MKPPSSIQTS EFDSSDEEPI EDEQTPIHIS WLSLSRVNCS QFLGLCALPG CKFKDVRRNV QKDTEELKSC GIQDIFVFCT RGELSKYRVP NLLDLYQQCG IITHHHPIAD GGTPDIASCC EIMEELTTCL

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KNYRKTLIHC YGGLGRSCLV AACLLLYLSD TISPEQAIDS LRDLRGSGAI
QTIKQYNYLH EFRDKLAAHL SSRDSQSRSV SR.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

CDKN3 cyclin-dependent kinase inhibitor 3 [Homo sapiens]

Synonyms

cyclin-dependent kinase inhibitor 3; KAP; CDI1; CIP2; KAP1; FLJ25787; MGC70625; CDKN3; kinase-associated phosphatase; Cdk-associated protein phosphatase; cyclin-dependent kinase interactor 1; CDK2-associated dual specificity phosphatase; cyclin-dependent kinase interacting protein 2; EC 3.1.3.48, EC 3.1.3.16; CDK2-associated dual-specificity phosphatase; Cyclin-dependent kinase interactor 1; Cyclin-dependent kinase-interacting protein 2; Kinase-associated phosphatase

Gene ID

1033

mRNA Refseq

NM_001130851

Protein Refseq

NP_001124323

MIM

157680

UniProt ID

Q16667

**Chromosome
Location**

14q22

Function

hydrolase activity; protein binding; protein serine/threonine phosphatase activity;

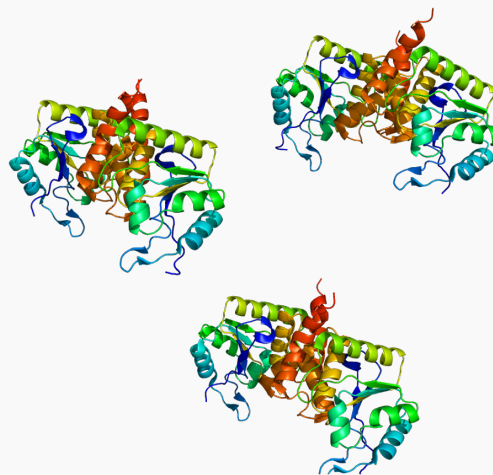
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protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity

PDB rendering based
on 1fpz.



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