Recombinant human CDKN3 protein

Catalog Number: ATGP0825

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-212aa

UniProt No.
Q16667

NCBI Accession No.
NP_005183

Alternative Names
Cyclin-dependent kinase inhibitor 3, CDI1, CIP2, KAP, KAP1

PRODUCT SPECIFICATION

Molecular Weight
25.9 kDa (232aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.1M NaCl

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human CDKN3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

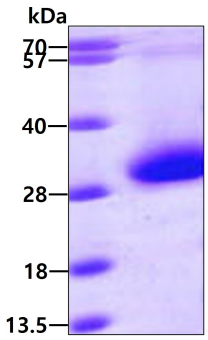
MGSSHHHHHH SSGLVPRGSH MKPPSSIQTS EFDSSDEEPI EDEQTPIHIS WLSLSRVNCS QFLGLCALPG CKFKDVRRNV QKDTEELKSC GIQDIFVFCT RGELSKYRVP NLLDLYQQCG IITHHHPIAD GGTPDIASCC EIMEELTTCL KNYRKTLIHC YGGLGRSCLV AACLLLYLSD TISPEQAIDS LRDLRGSGAI QTIKQYNYLH EFRDKLAAHL SSRDSQSRSV SR

General References

Maak S., et al. (2003) Genet Sel Evol. 1:157-165.
Gyuris J., et al. (1993) Cell. 75:791-803.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.