

# Recombinant human ISCU protein

Catalog Number: ATGP0842

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

35-167aa

### UniProt No.

Q9H1K1

### NCBI Accession No.

NP\_998760

### Alternative Names

iron-sulfur cluster assembly enzyme, NIFUN, NifU-like N-terminal domain containing protein, NifU-like protein, IscU iron-sulfur cluster scaffold homolog, iron-sulfur cluster scaffold homolog, ISU2, hnifU

## PRODUCT SPECIFICATION

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### Molecular Weight

16.7 kDa (154aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 100mM 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

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### Description

Iron-sulfur cluster assembly enzyme, also known as ISCu, is a member of the nifu family. Iron-sulfur (Fe-S) clusters are necessary for several mitochondrial enzymes and other subcellular compartment proteins. It is interact with ISCS, a cysteine desulfurase, to sequester inorganic sulfur for Fe-S cluster assembly. ISCu-ISCS protein complex localizes in both mitochondria and cytosol, implying that Fe-S cluster assembly takes place in multiple subcellular compartments in mammalian cells. Recombinant human ISCu protein, fused to His-tag at N-

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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MYHKKVVDHY ENPRNVGSLD KTSKNVGTGL VGAPACGDVM KLQIQVDEKG  
KIVDARFKTF GCGSAIASS LATEWVKGKT VEEALTIKNT DIAKELCLPP VKLHCSMLAE DAIKAALADY KLKQEPKKGE AEKK

### General References

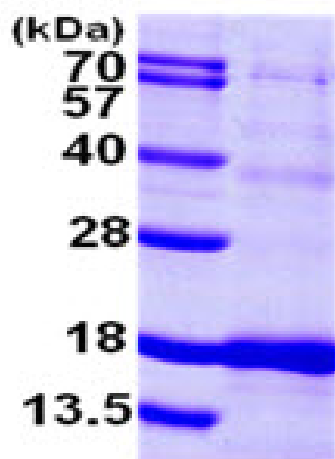
Tong WH., et al. (2000) EMBO J. 19:5692-5700

Tong WH, et al. (2006). Cell Metab. 3 (3): 199-210.

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)