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# Recombinant human ISCU protein

Catalog Number: ATGP0842

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

35-167aa

#### UniProt No.

09H1K1

#### **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**

# **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**

### **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**

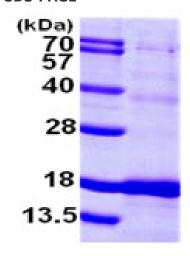
MGSSHHHHHH SSGLVPRGSH MYHKKVVDHY ENPRNVGSLD KTSKNVGTGL VGAPACGDVM KLQIQVDEKG KIVDARFKTF GCGSAIASSS LATEWVKGKT VEEALTIKNT DIAKELCLPP VKLHCSMLAE DAIKAALADY KLKQEPKKGE AEKK

#### **General References**

Tong WH., et al. (2000) EMBO J. 19:5692-5700 Tong WH, et al. (2006). Cell Metab. 3 (3): 199-210.

# **DATA**

# SDS-PAGE



15% SDS-PAGE (3ug)

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

