Recombinant human ISCU protein

Catalog Number: ATGP0842

PRODUCT INFORMATION

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

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-

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

Amino acid Sequence

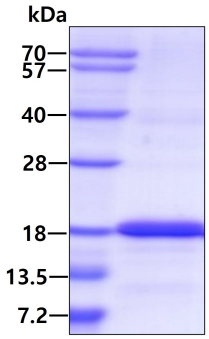
<MGSSHHHHHH SSGLVPRGSH M>YHKKVVDHY ENPRNVGSLD KTSKNVGTGL VGAPACGDVM KLQIQVDEKG KIVDARFKTF GCGSAIASSS LATEWVKGKT VEEALTIKNT DIAKELCLPP VKLHCSMLAE DAIKAALADY KLKQEPKKGE AEKK

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



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