

Recombinant Human ISCU, 20-650 aa, His-tagged

Cat. No. ISCU-3378H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ISCU protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 16.7kDa (154aa).
Species	Human
Source	E.coli
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl.
Purity	> 90% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MYHKKVVDHY ENPRNVGSLD KTSKNVGTGL VGAPACGDVM KLQIQVDEKG KIVDARFKTF GCGSAIASSS LATEWVKGKT VEEALTIKNT DIAKELCLPP VKLHCSMLAE DAIKAALADY KLKQEPKKGE AEKK.

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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

ISCU iron-sulfur cluster scaffold homolog (E. coli) [Homo sapiens]

Synonyms

Iron-sulfur cluster scaffold homolog (E. coli);HML; ISU2; NIFU; NIFUN; hnifU; MGC74517; 2310020H20Rik; ISCU; iron-sulfur cluster assembly enzyme ISCU, mitochondrial; nifU-like protein; nitrogen fixation cluster-like; NifU-like N-terminal domain containing; IscU iron-sulfur cluster scaffold homolog; nifU-like N-terminal domain-containing protein; IscU iron-sulfur cluster scaffold homolog (E. coli); NifU-like N-terminal domain-containing protein

Gene ID

23479

mRNA Refseq

NM_014301

Protein Refseq

NP_055116

MIM

611911

UniProt ID

Q9H1K1

**Chromosome
Location**

12q24.1

Function

iron ion binding; iron-sulfur cluster binding; metal ion binding; protein binding; protein complex scaffold

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