

Recombinant Human ISCU, 35-167 aa, His-tagged

Cat. No. ISCU-945H 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); 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; HML; ISU2; NIFU; NIFUN; hnifU; MGC74517; 2310020H20Rik; ISCU; NifU-like protein; NifU-like N-terminal domain-containing protein; IscU iron-sulfur cluster scaffold homolog (E. coli)

Gene ID [23479](#)

mRNA Refseq [NM_014301](#)

Protein Refseq [NP_055116](#)

MIM [611911](#)

UniProt ID [Q9H1K1](#)

Chromosome Location 12q24.1

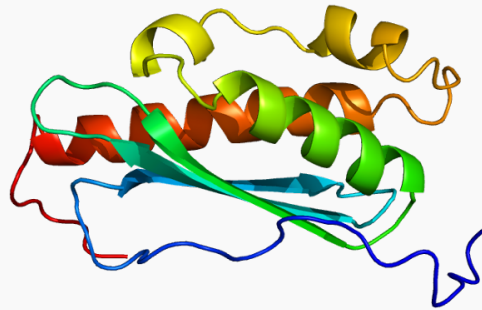
Function iron ion binding; iron-sulfur cluster binding; metal ion binding; protein binding; protein complex scaffold

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