

## 32-4025: Recombinant Human Iron-sulfur Cluster Scaffold Homolog

**Alternative Name :** Iron-sulfur cluster assembly enzyme ISCU mitochondrial, NifU-like N-terminal domain-containing protein, NifU-like protein, ISCU, NIFUN, HML, ISU2, NIFU, hnfU, MGC74517, 2310020H20Rik.

### Description

Source : Escherichia Coli. ISCU Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 154 amino acids (35-167 a.a.) and having a molecular mass of 16.7kDa. The ISCU is purified by proprietary chromatographic techniques. Iron-sulfur cluster assembly enzyme (ISCU) belongs to the nifU family. Iron-sulfur (Fe-S) clusters are required for several mitochondrial enzymes and other subcellular compartment proteins. ISCU interacts with ISCS (a cysteine desulfurase) to sequester inorganic sulfur for Fe-S cluster assembly. The ISCU-ISCS protein complex localizes in both mitochondria and cytosol, implying that Fe-S cluster assembly occurs in multiple subcellular compartments in mammalian cells.

### Product Info

**Amount :** 5 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** The ISCU solution (0.5 mg/ml) 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 100mM NaCl.  
**Storage condition :** ISCU should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MYHKKVVDHY ENPRNVGSLD KTSKNVGTGL VGAPACGDVM  
KLQIQVDEKG KIVDARFKTF GCGSAIASSS LATEWVKGKT VEEALTIKNT DIAKELCLPP VKLHCSMLAE  
DAIKAALADY KKKQEPKKGE AEKK.