

---

## Product Data Sheet

---

Product Name: ISCU Human  
 Cat. No.: GP23712  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Iron-sulfur cluster assembly enzyme ISCU mitochondrial; NifU-like N-terminal domain-containing protein; NifU-like protein; ISCU; NIFUN; HML; ISU2; NIFU; hnifU; MGC74517; 2310020H20Rik.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MYHKKVVDHY ENPRNVGSLD KTSKNVGTGL VGAPACGDVM KLQIQVDEKG KIVDARFKTF GCGSAIASSS LATEWVKGKT VEEALTIKNT DIAKELCLPP VKLHCSMLAE DAIKAALADY KLKQEPKKGE AEKK.		
Formulation	The ISCU solution (0.5 mg/ml) 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 100mM NaCl.		

### Introduction

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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**  
**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**  
**Address: 10292 Central Ave. #205, Montclair, CA, USA**