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ISCU Human

Description: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.

Catalog #:PRPS-079

For research use only.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MYHKKVVDHY ENPRNVGSLD KTSKNVGTGL VGAPACGDVM KLQIQVDEKG KIVDARFKTF GCGSAIASSS LATEWVKGKT VEEALTIKNT DIAKELCLPP VKLHCSMLAE DAIKAALADY KLKQEPKKGE AEKK.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The ISCU solution (0.5 mg/ml) 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 100mM NaCl.

Stability:
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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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