Iron Sulfur Cluster Assembly Protein 1, Mitochondrial (ISU1), Partial (ISU1) Kluyveromyces Lactis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Iron sulfur cluster assembly protein 1, mitochondrial (ISU1), partial, Recombinant Protein
Full Product Name	Recombinant Kluyveromyces lactis Iron sulfur cluster assembly protein 1, mitochondrial (ISU1), partial
Product Gene Name	ISU1 recombinant protein
Product Synonym Gene Name	ISU1; KLLA0D07161g
Product Synonym Names	Iron sulfur cluster assembly protein 1, mitochondrial; Iron sulfur cluster scaffold protein 1
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	19,093 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6CRQ9
Species	Kluyveromyces lactis (strain 8585 / CBS 2359 / DSM 70799 / NBRC 1267 / NRRL Y-1140 / WM37) (Yeast) (Candida sphaerica)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ISU1 recombinant protein	MBS1323058 is a recombinant protein targeting ISU1. Also known as Recombinant Kluyveromyces lactis Iron sulfur cluster assembly protein 1, mitochondrial (ISU1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ISU1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ISU1. It may not necessarily be applicable to this product.

NCBI GI #	50306809
NCBI GeneID	2893074
NCBI Accession #	XP_453380.1
UniProt Primary Accession #	Q6CRQ9
UniProt Related Accession #	Q6CRQ9
GenBank Nucleotide #	XM_453380.1
NCBI Official Full Name	hypothetical protein

NCBI Official Symbol	KLLA0D07161g
UniProt Protein Name	Iron sulfur cluster assembly protein 1, mitochondrial
UniProt Synonym Protein Names	Iron sulfur cluster scaffold protein 1
Protein Family	Iron sulfur cluster assembly protein
UniProt Gene Name	ISU1
UniProt Synonym Gene Names	KLLA0D07161g
UniProt Entry Name	ISU1_KLULA
NCBI Protein Information	hypothetical protein
UniProt Comments for ISU1	Scaffold protein for the de novo synthesis of iron-sulfur (Fe-S) clusters within mitochondria, which is required for maturation of both mitochondrial and cytoplasmic [2Fe-2S] and [4Fe-4S] proteins. First, a [2Fe-2S] cluster is transiently assembled on the scaffold protein ISU1. In a second step, the cluster is released from ISU1, transferred to a glutaredoxin, followed by the formation of mitochondrial [2Fe-2S] proteins, the synthesis of [4Fe-4S] clusters and their target-specific insertion into the recipient apoproteins. Cluster assembly on ISU1 depends on the function of the cysteine desulfurase complex NFS1-ISD11, which serves as the sulfur donor for cluster synthesis, the iron-binding protein frataxin as the putative iron donor, and the electron transfer chain comprised of ferredoxin reductase and ferredoxin, which receive their electrons from NADH.
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