Isoleucine--Trna Ligase, Mitochondrial (IARS2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Isoleucine--tRNA ligase, mitochondrial (IARS2), Recombinant Protein
Full Product Name	Recombinant Human Isoleucine--tRNA ligase, mitochondrial (IARS2) , partial
Product Gene Name	IARS2 recombinant protein
Product Synonym Gene Name	IARS2
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	113,792 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.
OMIM	612801
3D Structure	ModBase 3D Structure for Q9NSE4
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IARS2 recombinant protein	MBS1469909 is a recombinant protein targeting IARS2. Also known as Recombinant Human Isoleucine--tRNA ligase, mitochondrial (IARS2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of IARS2 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 IARS2. It may not necessarily be applicable to this product.

NCBI GI #	46852147
NCBI GeneID	55699
NCBI Accession #	NP_060530.3
UniProt Primary Accession #	Q9NSE4
UniProt Secondary Accession #	Q1M2P9; Q6PI85; Q7L439; Q86WU9; Q96D91; Q9H9Q8; Q9NW42; B2RPG8
UniProt Related Accession #	Q9NSE4
GenBank Nucleotide #	NM_018060.3
NCBI Official Full Name	isoleucine--tRNA ligase, mitochondrial

NCBI Official Synonym Full Names	isoleucyl-tRNA synthetase 2, mitochondrial
NCBI Official Symbol	IARS2
NCBI Official Synonym Symbols	ILERS; CAGSSS
UniProt Protein Name	Isoleucine--tRNA ligase, mitochondrial
UniProt Synonym Protein Names	Isoleucyl-tRNA synthetase; IleRS
UniProt Gene Name	IARS2
UniProt Synonym Gene Names	IleRS
NCBI Protein Information	isoleucine--tRNA ligase, mitochondrial
NCBI Summary for IARS2	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAS, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of isoleucine-tRNA synthetase exist, a cytoplasmic form and a mitochondrial form. This gene encodes the mitochondrial isoleucine-tRNA synthetase which belongs to the class-I aminoacyl-tRNA synthetase family. [provided by RefSeq, Dec 2014]
Research Articles on IARS2	**1.** Patients with this very rare mutation present with a myriad of ocular findings, including infantile cataract, neurotrophic keratitis, corneal opacification, and orbital myopathy.
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