Isoleucine--Trna Ligase (Iles), Partial (ileS) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Isoleucine--tRNA ligase (ileS), partial, Recombinant Protein
Full Product Name	Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum Isoleucine--tRNA ligase (ileS), partial
Product Gene Name	ileS recombinant protein
Product Synonym Gene Name	ileS; BU149
Product Synonym Names	Isoleucine--tRNA ligase; EC=6.1.1.5; Isoleucyl-tRNA synthetase; IleRS
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	110,457 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 P57249
Species	Buchnera aphidicola subsp. Acyrthosiphon pisum (strain APS) (Acyrthosiphon pisum symbiotic bacterium)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ileS recombinant protein	MBS1253652 is a recombinant protein targeting ileS. Also known as Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum Isoleucine--tRNA ligase (ileS), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ileS 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 ileS. It may not necessarily be applicable to this product.

NCBI GI #	15616769
NCBI GeneID	1109593
NCBI Accession #	NP_239981.1
UniProt Primary Accession #	P57249
UniProt Related Accession #	P57249
GenBank Nucleotide #	NC_002528.1
NCBI Official Full Name	isoleucyl-tRNA synthetase
NCBI Official Symbol	ileS

UniProt Protein Name	Isoleucine--tRNA ligase
UniProt Synonym Protein Names	Isoleucyl-tRNA synthetase
Protein Family	Isoleucine--tRNA ligase
UniProt Gene Name	ileS
UniProt Synonym Gene Names	IleRS
UniProt Entry Name	SYI_BUCAI
NCBI Protein Information	isoleucyl-tRNA synthetase
UniProt Comments for ileS	Catalyzes the attachment of isoleucine to tRNA(Ile). As IleRS can inadvertently accommodate and process structurally similar amino acids such as valine, to avoid such errors it has two additional distinct tRNA(Ile)-dependent editing activities. One activity is designated as 'pretransfer' editing and involves the hydrolysis of activated Val-AMP. The other activity is designated 'posttransfer' editing and involves deacylation of mischarged Val-tRNA(Ile).
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