

Recombinant Human IARS2 Protein, His-tagged

Cat. No. IARS2-2265H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IARS2 Protein (Gly712-Lys1012) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly712-Lys1012
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 38 kDa Accurate Molecular Mass: 38 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	IARS2 isoleucyl-tRNA synthetase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	IARS2
Synonyms	IARS2; isoleucyl-tRNA synthetase 2, mitochondrial; isoleucine--tRNA ligase, mitochondrial; FLJ10326; isoleucine tRNA ligase 2; mitochondrial; isoleucine tRNA ligase 2, mitochondrial; isoleucyl-tRNA synthetase, mitochondrial; mitochondrial isoleucine tRNA synthetase; isoleucine-tRNA synthetase 2, mitochondrial; ILERS;
Gene ID	55699
mRNA Refseq	NM_018060
Protein Refseq	NP_060530

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MIM	612801
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UniProt ID	Q9NSE4
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