

Recombinant Human LARS protein, His & T7-tagged

Cat. No. LARS-8208H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LARS aa. (Gly260~Glu509 (Accession # Q9P2J5)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly260~Glu509
Description	This gene encodes a cytosolic leucine-tRNA synthetase, a member of the class I aminoacyl-tRNA synthetase family. The encoded enzyme catalyzes the ATP-dependent ligation of L-leucine to tRNA(Leu). It is found in the cytoplasm as part of a multisynthetase complex and interacts with the arginine tRNA synthetase through its C-terminal domain. A mutation in this gene was found in affected individuals with infantile liver failure syndrome 1. Alternatively spliced transcript variants of this gene have been observed.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.5kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Characteristic	The isoelectric point is 8.3.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

Gene Name	LARS leucyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	LARS
Synonyms	LARS; leucyl-tRNA synthetase; LRS; LEUS; LFIS; ILFS1; LARS1; LEURS; PIG44; RNTLS; HSPC192; hr025Cl; leucine--tRNA ligase, cytoplasmic; cytoplasmic leucyl-tRNA synthetase; cytosolic leucyl-tRNA synthetase; leucine tRNA ligase 1, cytoplasmic; leucine translase; proliferation-inducing gene 44
Gene ID	51520

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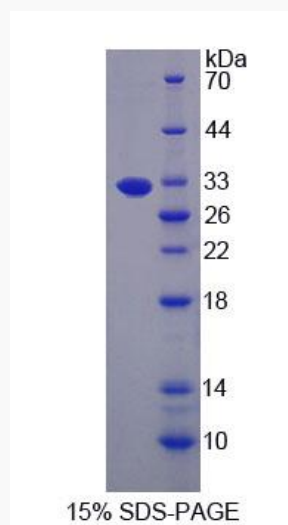
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mRNA Refseq [NM_001317964.1](#)

Protein Refseq [NP_001304893.1](#)

UniProt ID [Q9P2J5](#)

SDS-PAGE



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