Recombinant Human KARS protein, His & T7-tagged

Cat. No. KARS-8215H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KARS aa. (Arg323~Arg553 (Accession # Q15046)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Arg323~Arg553
Description	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Lysyl-tRNA synthetase is a homodimer localized to the cytoplasm which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30.2kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 4.8.

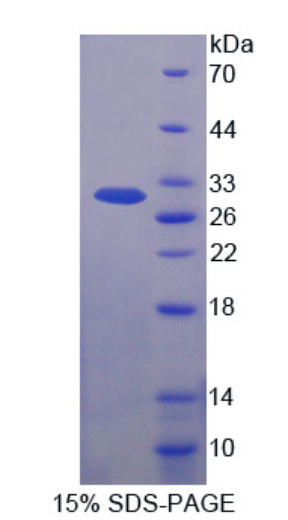
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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious 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 PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	KARS lysyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	KARS
Synonyms	KARS; lysyl-tRNA synthetase; KRS; KARS1; KARS2; CMTRIB; DFNB89; lysine--tRNA ligase; lysRS; lysine tRNA ligase
Gene ID	3735
mRNA Refseq	NM_001130089.1
Protein Refseq	NP_001123561.1

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UniProt ID	Q15046
SDS-PAGE	 15% SDS-PAGE

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