

Recombinant Human GARS protein, His-tagged

Cat. No. GARS-8206H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GARS aa. (Val567~Glu735) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Val567~Glu735
Description	This gene encodes glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha) ₂ dimer 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. Two transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	23kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>93%
Characteristic	The isoelectric point is 5.1.

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Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
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.
Concentration	200µg/mL
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	GARS glycyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	GARS
Synonyms	GARS; glycyl-tRNA synthetase; HMN5; CMT2D; DSMAV; GlyRS; SMAD1; AP-4-A synthetase; glycine--tRNA ligase; Charcot-Marie-Tooth neuropathy 2D; Charcot-Marie-Tooth neuropathy, neuronal type, D; diadenosine tetraphosphate synthetase
Gene ID	2617

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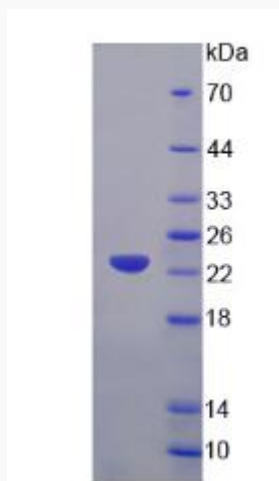
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mRNA Refseq [NM_001316772.1](#)

Protein Refseq [NP_001303701.1](#)

UniProt ID [P41250](#)

SDS-PAGE



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