

Recombinant Human GARS, His-tagged

Cat. No. GARS-28978TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 413-734 of Human GARS with N terminal His tag, 322 amino acids, 37kDa.
Species	Human
Source	E.coli
ProteinLength	413-734 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 88 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino	IYLYLTKVGISPKLRFQRQHMENEMAHYACDCWDAESKTS YGWIEIVGCADRSCYD

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acids

LSCHARATKVPLVAEKPLKEPK TVNVVQFEPKGAIGKAYKKDAKLVM EYLAICDEC
 YIT EMEMLLNEKGEFTIETEGKTFQLTKDMINVKRFQKTLY VEEVVPNVIEPSFGLG
 RIMYTVFEHTFHVREGDEQRTF FSFPAVVAPFKCSVLPLSQNQEFMPFVKELSEALT
 RHGVSHKVDSSSGSIGRRYARTDEIGVAFGVTIDFDTVNKTPH TATLRDRDSMRQI
 RAEISELPSIVQDLANGNITWADVE ARYPLFEGQETGKK

GENE INFORMATION

Gene Name [GARS glycyl-tRNA synthetase \[Homo sapiens \]](#)

Official Symbol [GARS](#)

Synonyms GARS; glycyl-tRNA synthetase; Charcot Marie Tooth neuropathy 2D , CMT2D;
 DSMAV; glycine tRNA ligase; GlyRS; SMAD1;

Gene ID [2617](#)

mRNA Refseq [NM_002047](#)

Protein Refseq [NP_002038](#)

MIM [600287](#)

Uniprot ID [P41250](#)

**Chromosome
Location** 7p15

Pathway Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved

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biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem;

Function

ATP binding; glycine-tRNA ligase activity; glycine-tRNA ligase activity; ligase activity; nucleotide binding;

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