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: NoneConstituents: 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	IYLYLTKVGISPDKLRFRQHMENEMAHYACDCWDAESKTS YGWIEIVGCADRSCYD

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

acids	LSCHARATKVPLVAEKPLKEPK TVNVVQFEPSKGAIGKAYKKDAKLVMEYLAICDEC YIT EMEMLLNEKGEFTIETEGKTFQLTKDMINVKRFQKTLY VEEVVPNVIEPSFGLG RIMYTVFEHTFHVREGDEQRTF FSFPAVVAPFKCSVLPLSQNQEFMPFVKELSEALT RHGVSHKVDDSSGSIGRRYARTDEIGVAFGVTIDFDTVNKTPH 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

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

	biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem;
Function	ATP binding; glycine-tRNA ligase activity; glycine-tRNA ligase activity; ligase activity; nucleotide binding;

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