

Recombinant Full Length Human GARS1 Protein, C-Flag-tagged

Cat. No. GARS1-1672HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GARS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	83 kDa
AA Sequence	MPSRPVLLRGARAALLLLPPRLLARPSLLLRSLSAASCAPISLPAAASRSSMDGA GAEEVLAPLRLA VRQQGDLVRKLKEDKAPQVDVDKAVAE LKARKRVLEAKELALQP KDDIVDRAKMEDTLKRRFFYDQAF AI YGGVSGLYDFGPVGCALKNNIIQ TWRQHFIQ EEQILEIDCTMLTPEPVLKTS GHVDFADFMVKDVKNGE CFRADHLLKAHLQKLMS DKKCSVEKKSEMESVLAQLDNYGQQELADLFVNYNVKSPITGNDLSPPVSFNL MFK TFIGPGGNMPGYLRPETAQGI FLNFKRLLEFNQGKLPFAAAQIGNSFRNEISPRGLI

 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

RVREFTMAE IEHFVDPSEKDHDPKFQNVADLHLYLSAKAQVSGQSARKMRLGDAV
 EQGVINNTVLGYFIGRIYLYLTKV GISPDKLRFRQHMENEMAHYACDCWDAESKTSY
 GWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPK TVNVVQFEPKGAIGKAYKK
 DAKLVMEYLAICDECYITEMEMLLNEKGFTIETEGKTFQLTKDMINVKR FQKTLYE
 EVVPNVIEPSFGLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVVAPFKCSVLPLSQNQ
 EFMPF VKELSEALTRHGVSHKVDDSSSGSIGRRYARTDEIGVAFGVTIDFTVKNKTPH
 TATLRDRDSMRQIRAEIS
 ELPSIVQDLANGNITWADVEARYPLFEGQETGKKETIEETRTRPLEQKLISEEDLAAN
 DILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Aminoacyl-tRNA biosynthesis
Full Length	Full L.

GENE INFORMATION

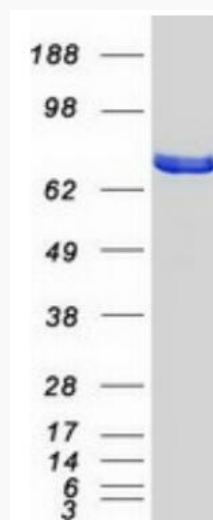
Gene Name	GARS1 glycyl-tRNA synthetase 1 [Homo sapiens (human)]
Official Symbol	GARS1

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Synonyms	GARS; HMN5; CMT2D; DSMAV; GlyRS; HMN5A; SMAD1; SMAJI
Gene ID	2617
mRNA Refseq	NM_002047.4
Protein Refseq	NP_002038.2
MIM	600287
UniProt ID	P41250



Coomassie blue staining of purified GARS1 protein.