

# Recombinant Full Length Human GARS Protein, His tagged

**Cat. No.** GARS-12HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |  |
|-------------------------------------|--|
| <b>Product Overview</b>             | Recombinant Full Length Human GARS Protein fused to adeca-histidine purification tag was expressed in Spodoptera frugiperda Sf9 insectcells.   |
| <b>Species</b>                      | Human  |
| <b>Source</b>                       | Insect Cells   |
| <b>ProteinLength</b>                | 1-739 aa   |
| <b>Description</b>                  | 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) <sub>2</sub> 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. |
| <b>Immunological function</b>       | Binds IgG-type human auto-antibodies.  |
| <b>Molecular Mass</b>               | 79 kDa   |
| <b>Bio-activity</b>                 | SDS-PAGE; Western blot with i: anti-EJ autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.   |
| <b>Calculated isoelectric point</b> | pH 6.17  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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| <b>Immunological tests/Functionality</b> | Immunodot analyses with positive/negative samples.                         |
| <b>Purity</b>                            | >80%   |
| <b>Storage</b>                           | At -70 centigrade or below. Repeated freeze/thaw cycles should be avoided. |
| <b>Storage Buffer</b>                    | Neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent.  |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | <a href="#">GARS1 glycyI-tRNA synthetase 1 [ Homo sapiens (human) ]</a>   |
| <b>Official Symbol</b> | <a href="#">GARS1</a>   |
| <b>Synonyms</b>        | GARS1; glycyI-tRNA synthetase 1; GARS; HMN5; CMT2D; DSMAV; GlyRS; HMN5A; HMND5; SMAD1; SMAJI; glycine--tRNA ligase; AP-4-A synthetase; Charcot-Marie-Tooth neuropathy 2D; Charcot-Marie-Tooth neuropathy, neuronal type, D; ap4A synthetase; diadenosine tetraphosphate synthetase; EC 6.1.1.14 |
| <b>Gene ID</b>         | <a href="#">2617</a>  |
| <b>mRNA Refseq</b>     | <a href="#">NM_002047</a>   |
| <b>Protein Refseq</b>  | <a href="#">NP_002038</a>   |
| <b>MIM</b>             | <a href="#">600287</a>  |
| <b>UniProt ID</b>      | <a href="#">P41250</a>  |

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