

Recombinant Full Length Human GARS Protein, GST-tagged

Cat. No. GARS-5445HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GARS full-length ORF (ENSP00000373918, 1 a.a. - 685 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	685 amino acids
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. [provided by RefSeq
Molecular Mass	103.9 kDa
AA Sequence	MDGAGAEVVLAPLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAELKARKRVLEAKEL ALQPKDDIVDRAKMEDTLKRRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTWRQ HFIQEEQILEIDCTMLTPEPVLKTSGHVDKFADFMVKDVKNGEFCFRADHLLKAHLQKL MSDKKCSVEKKSEMESVLAQLDNYGQQELADLFVNYNVKSPITGNDLSPPVSFNLNLM FKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQGKLPFAAAQIGNSFRNEISPRSG LIRVREFTMAEIEHFVDPSEKDHPKFQNVADLHLYLSAKAQVSGQSARKMRLGDAV EQGVINNTVLGYFIGRIYLYLTKVGISPDKLRFRQHMENEMAHYACDCWDAESKTSY GWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEPSKGAIGKAYKK

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DAKLVMEYLAICDECYITEMEMLLNEKGFTIETEGKTFQLTKDMINVKRFQKTLTYVE
 EVVPNVIEPSFGLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVVAPFKCSVLPLSQNQ
 EFMPFVKELSEALTRHGVSHKVDDSSGSIGRRYARTDEIGVAFGVTIDFDTVNKTPH
 TATLRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQETGKKETIEE

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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

Official Symbol [GARS](#)

Synonyms GARS; glycyl-tRNA synthetase; Charcot Marie Tooth neuropathy 2D, CMT2D; glycine--tRNA ligase; DSMAV; glycine tRNA ligase; GlyRS; SMAD1; AP-4-A synthetase; Charcot-Marie-Tooth neuropathy 2D; diadenosine tetraphosphate synthetase; Charcot-Marie-Tooth neuropathy, neuronal type, D; HMN5; CMT2D;

Gene ID [2617](#)

mRNA Refseq [NM_002047](#)

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Protein Refseq	NP_002038
MIM	600287
UniProt ID	P41250

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