

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 FKTFIGPGGNMPGYLRPETAQGIFLNFKRLLLEFNQGKLPFAAAQIGNSFRNEISPRSG 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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