

Product datasheet for PH302852

GARS1 (NM_002047) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GARS MS Standard C13 and N15-labeled recombinant protein (NP_002038)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202852
Predicted MW:	83.1 kDa
Protein Sequence:	>RC202852 protein sequence Red=Cloning site Green=Tags(s)
	MPSRPVLLRGARAALLLLLPPRLLARPSLLLRRSLSAASCAPISLPAAASRSSMDGAGAEVLAFLRLA VRQQGDLVRKLEKDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVDRAKMEDTLKRRFFYDQAFAI YGGVSGLYDFGPGVGCALKNNIIQTWRQHFIQEEQILEIDCTMLTPEPVLKTSGHVDFADFMVKDVKNGE CFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQLDNYGQQELADLFVNYNVKSPITGNDLSPVSNL MFKTFIGPGGNMPGYLRPETAQGIPLNFKRLLEFNQGLPFAAAQIGNSFRNEISPRSGLIRVREFTMAE IEHFVDPSEKDHDPKFQNVADLHLVLSAKAQVSGSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKV GISPKLRFQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDL SCHARATKVPVLAEKPLKEPK TVNVVQFEPKGAIGKAYKDKAKLVMEYLAICDECYITEMEMLLNEKGEFTIETEGKTFQLTKDMINVKR FQKTLVVEEVVNVIEPFGGLGRIMYTVFEHTFHVREGDEQRTFFSFAVAVPFKCSVPLPSQNQEFMPF VKELSEALTRHGVSHKVDSSGSI GRRYARTDEIGVAFGVTIDFDVTNKT PHTATLRDRDSMRQIRAEIS ELPSIVQDLANGNITWADVEARYPLFEGQETGKKEITIEE
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002038



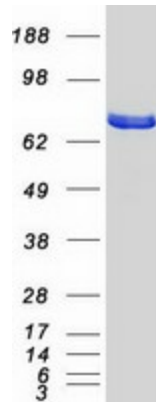
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RefSeq Size:	2759
RefSeq ORF:	2217
Synonyms:	CMT2D; DSMAV; GARS; GlyRS; HMN5; HMN5A; SMAD1; SMAJI
Locus ID:	2617
UniProt ID:	P41250 , A0A090N8G0
Cytogenetics:	7p14.3

Summary: 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. [provided by RefSeq, Oct 2015]

Protein Pathways: Aminoacyl-tRNA biosynthesis

Product images:



Coomassie blue staining of purified GARS protein (Cat# [TP302852]). The protein was produced from HEK293T cells transfected with GARS cDNA clone (Cat# [RC202852]) using MegaTran 2.0 (Cat# [TT210002]).