

Recombinant Mouse Gars Protein, Myc/DDK-tagged

Cat. No. Gars-3154M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length glycyl-tRNA synthetase (Gars), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the ATP-dependent ligation of glycine to the 3'-end of its cognate tRNA, via the formation of an aminoacyl-adenylate intermediate (Gly-AMP). Also produces diadenosine tetraphosphate (Ap4A), a universal pleiotropic signaling molecule needed for cell regulation pathways, by direct condensation of 2 ATPs. Thereby, may play a special role in Ap4A homeostasis.
Molecular Mass	81.9 kDa
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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	Gars glycyl-tRNA synthetase [Mus musculus (house mouse)]
Official Symbol	Gars
Synonyms	GARS; glycyl-tRNA synthetase; glycine--tRNA ligase; glyRS; AP-4-A synthetase; storage granule protein 23; diadenosine tetraphosphate synthetase; Nmf249; Sgrp23
Gene ID	353172
mRNA Refseq	NM_180678
Protein Refseq	NP_851009
UniProt ID	Q9CZD3

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