9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

# 32-2336: GARS sf9 Recombinant Protein

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| **Alternative Name :** | Glycine--tRNA ligase,EC 6.1.1.14,Diadenosine tetraphosphate synthetase,AP-4-A synthetase,Glycyl-tRNA synthetase,GlyRS,GARS,HMN5,CMT2D,DSMAV,SMAD1. |

## Description

Source : Sf9 Insect Cells. GARS Human Recombinant produced in SF9 is a glycosylated, polypeptide chain having a calculated molecular mass of 78,902 Dalton. GARS is expressed with a -10xHis tag at N-terminus and purified by proprietary chromatographic techniques. GARS is an (alpha)2 dimer which is a member of the class II family of tRNA synthetases. GARS is a glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases which charge tRNAs with their cognate amino acids. GARS catalyzes the attachment of glycine to tRNA(Gly). In addition, GARS is able to produce diadenosine tetraphosphate (Ap4A), which is a universal pleiotropic signaling molecule required for cell regulation pathways, by direct condensation of two ATPs. GARS has been demonstrated to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis.

## Product Info

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| **Amount :** | 10 µg |
| **Purification :** | Greater than 80.0% as determined by SDS-PAGE. |
| **Content :** | GARS is supplied in 20mM HEPES buffer pH-7.6, 250mM NaCl and 20% glycerol. |
| **Storage condition :** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles. |

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***