

32-2336: GARS sf9 Recombinant Protein

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

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.

