Product Data Sheet

Product Name:	GARS Human, sf9
Cat. No.:	GP21643
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9 Insect Cells.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glycine--tRNA ligase; EC 6.1.1.14; Diadenosine tetraphosphate synthetase; AP-4-A synthetase; Glycyl-tRNA synthetase; GlyRS; GARS; HMN5; CMT2D; DSMAV; SMAD1.		
Formulation	GARS is supplied in 20mM HEPES buffer pH-7.6, 250mM NaCl and 20% glycerol.		

Introduction

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.

Stability

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.

Background

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.

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