

**GARS, 43-289aa, Human, His tag, E.coli**

**Cat.NO.: TP02200**

3th Edition

**Synonyms:**Glycyl-tRNA synthetase, CMT2D, DSMAV, GlyRS, HMN5, SMAD1

**Description:**GARS, also known as glycyl-tRNA synthetase, is one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. This enzyme is an (alpha)<sub>2</sub> 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. Recombinant human GARS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

**Molecular Weight:**30.0 kDa (270aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSPISLPAAASRSSMDGAGAEVLA PLRLAVRQQGDLVRK LKEDKAPQVDV DK  
AVAELKARKRVLEAKELALQPKDDIVDRAKMEDTLKRRFFYDQAF AIYGGVSGLYDFGPVGCALKN NIIQTWRQHFI  
QEEQILEIDCTMLTPEPVLKTSGHVDFADFMVKDVKN GECFRADHLLKAHLQKLMSDKKCSVEKKSEME SVLAQL  
DNYGQQELADLFVNYNVKSPITGNDLSPPVSFNL MFKTFIGPG

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.