

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)2 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-HCI buffer (pH 8.0) containing 0.15M NaCI, 10% glycerol, 1mM DTT

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

## Sequences:

MGSSHHHHHHSSGLVPRGSHMGSPISLPAAASRSSMDGAGAEEVLAPLRLAVRQQGDLVRKLKEDKAPQVDVDK AVAELKARKRVLEAKELALQPKDDIVDRAKMEDTLKRRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTWRQHFI QEEQILEIDCTMLTPEPVLKTSGHVDKFADFMVKDVKNGECFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQL DNYGQQELADLFVNYNVKSPITGNDLSPPVSFNLMFKTFIGPG

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.