

Recombinant human GARS protein

Catalog Number: ATGP2756

PRODUCT INFORMATION

Expression system

E.coli

Domain

43-289aa

UniProt No.

P41250

NCBI Accession No.

NP_002038

Alternative Names

Glycyl-tRNA synthetase, CMT2D, DSMAV, GlyRS, HMN5, SMAD1

PRODUCT SPECIFICATION

Molecular Weight

30 kDa (270aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

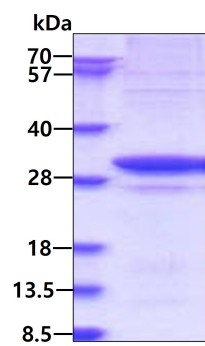
<MGSSHHHHH SSGLVPRGSH MGS>PISLPAA ASRSSMDGAG AEEVLAPLRL AVRQQGDLVR KLKEDKAPQV
DVDKAVAELEK ARKRVLEAKE LALQPKDDIV DRAKMEDTLK RRFYDQAF A IYGGVSGLYD FGPVGCALKN NIIQTWRQHF
IQEEQILEID CTMLTPEPVL KTSGHVDKFA DFMVKDVKNG ECFRADHLLK AHLQKLMSDK KCSVEKKSEM ESVLAQLDNY
GQQELADLFV NYNVKSPITG NDLSPPVSFN LMFKTFIGPG

General References

Guo R.-T., et al. (2009) J. Biol. Chem. 284:28968-28976
Xie W., et al. (2007) Proc. Natl. Acad. Sci. u.S.A. 104:9976-9981

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain