

Product datasheet for **AR51576PU-N**

Glycyl-tRNA synthetase (43-289, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Glycyl-tRNA synthetase (43-289, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSPISLPAA ASRSSMDGAG AEEVLAPLRL AVRQQGDLVR KLKEDKAPQV DVDKAVAELK ARKRVLEAKE LALQPKDDIV DRAKMEDTLK RRFYDQAF IYGGVSGLYD FGPVGCALKN NIIQWRQHF IQEEQILEID CTMLTPEPVL KTSGHVDFKFA DFMVKDVKNG ECFRADHLLK AHLQKLMSDK KCSVEKKSEM ESVLAQLDNY GQQELADLFV NYNVKSPITG NDLSPVSVFN LMFKTFIGPG
Tag:	His-tag
Predicted MW:	30.0 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human GARS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001303701
Locus ID:	2617
UniProt ID:	P41250 , A0A090N8G0
Cytogenetics:	7p14.3
Synonyms:	CMT2D; DSMAV; GARS; GlyRS; HMN5; HMN5A; SMAD1; SMAJI



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Summary:

This gene encodes glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]

Protein Pathways:

Aminoacyl-tRNA biosynthesis

Product images: