

Product datasheet for **AR09664PU-L**

Histidyl-tRNA synthetase / HARS (1-509, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Histidyl-tRNA synthetase / HARS (1-509, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MGSMAERAAL EELVKLQGER VRGLKQQKAS AELIEEEVAK LLKLKAQLGP DESKQKFVLK TPKGTRDYSR QMAVREKVF DVIIRCFKRH GAEVIDTPVF ELKETLMGKY GEDSKLIYDL KDQGGELLSL RYDLTVPFAR YLAMNKLNI KRYHIAKVYR RDNPMATRGR YREFYQCDFD IAGNFDPMIP DAECLKIMCE ILSSLQIGDF LVKVNDRRIL DGMFAICGVS DSKFRTICSS VDKLDKVSWE EVKNEMVGEK GLAPEVADRI GDYVQQHGGV SLVEQLLQDP KLSQNKQALE GLGDLKLLFE YLTLFGIDDK ISFDLSLARG LDYYTGVIYE AVLLQTPAQA GEEPLGVGSV AAGGRYDGLV GMFDPKGRKV PCVGLSIGVE RIFSIVEQRL EALEEKIRTT ETQVLVASAQ KKLLEERLKL VSELWDAGIK AELLYKKNPK LLNQLQYCEE AGIPLVAIIG EQELKDGVIK LRSVTSREEV DVRREDLVEE IKRRTGQPLC IC
Tag:	His-tag
Predicted MW:	59.8 kDa
Concentration:	lot specific
Purity:	>95% by SDS – PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human HARS 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 up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001244969</u>
Locus ID:	3035


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UniProt ID: P12081

Cytogenetics: 5q31.3

Synonyms: CMT2W; HARS; HRS; USH3B

Summary: Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is a cytoplasmic enzyme which belongs to the class II family of aminoacyl-tRNA synthetases. The enzyme is responsible for the synthesis of histidyl-transfer RNA, which is essential for the incorporation of histidine into proteins. The gene is located in a head-to-head orientation with HARSL on chromosome five, where the homologous genes share a bidirectional promoter. The gene product is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

Protein Pathways: Aminoacyl-tRNA biosynthesis

Product images:

