

Recombinant Human Histidyl-tRNA Synthetase, His-tagged

Cat. No. HARS-793H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanHARS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 59.4 kDa (532aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	HARS, also known asHistidyl-tRNA synthetase, function to catalyze the aminoacylation of tRNAs by their corresponding amino acids. HARS is from the class II family of aminoacyl-tRNA synthetases. It is responsible for the synthesis of histidyl-transfer RNA, which is essential for the incorporation of histidine into proteins. HARS is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MGSMAERAAL EELVKLQGER VRGLKQQKAS AELIEEEVAK LLKLKAQLGP DESKQKFVLK TPKGTRDYSP RQMAVREKVF DVIIRCFKRH GAEVIDTPVF ELKETLMGKY GEDSKLIYDL KDQGGELLSL RYDLTVPFAR YLAMNKLTNI KRYHIAKVYR RDNPAMTRGR YREFYQCDFD IAGNFDPMIP DAECLKIMCE ILSSLQIGDF LVKVNDRRIL DGMFAICGVS DSKFRTICSS VDKLDKVSWE EVKNEMVGEK GLAPEVADRI GDYVQQHGGV SLVEQLLQDP KLSQNKQALE GLGDLKLLFE YLTLFGIDDK ISFDLSLARG LDYYTGVIIYE AVLLQTPAQA GEEPLGVGSV AAGGRYDGLV GMFDPKGRKV PCVGLSIGVE RIFSIVEQRL EALEEKIRTT ETQVLVASAQ KKLLLEERLKL

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VSELWDAGIK AELLYKKNPK LLNQLQYCEE AGIPLVAIIG EQELKDGVIK
LRSVTSREEV DVRREDLVEE IKRRTGQPLC IC

Purity > 95% by SDS – PAGE.

Form Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT, 0.1M NaCl.

Concentration 1 mg/ml (determined by Bradford assay).

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.

GENE INFORMATION

Gene Name [HARS histidyl-tRNA synthetase \[Homo sapiens \]](#)

Synonyms HARS; histidyl-tRNA synthetase; HRS; FLJ20491; histidyl-tRNA synthetase, cytoplasmic; HisRS; OTTHUMP00000223661; OTTHUMP00000223662; histidine transase; histidine-tRNA ligase; histidine--tRNA ligase; histidine tRNA ligase 1, cytoplasmic; EC 6.1.1.21

Gene ID [3035](#)

mRNA Refseq [NM_002109](#)

Protein Refseq [NP_002100](#)

MIM [142810](#)

UniProt ID [P12081](#)

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Chromosome Location	5q31.3
Pathway	Aminoacyl-tRNA biosynthesis
Function	ATP binding; histidine-tRNA ligase activity; ligase activity; nucleotide binding

PDB rendering based on 1x59.

