

HARS recombinant protein

HARS, 1-509aa, Human, His tag, E Coli

CATALOG # AAA48605	HOST E Coli	APPLICATIONS SDS-Page
------------------------------	-----------------------	---------------------------------

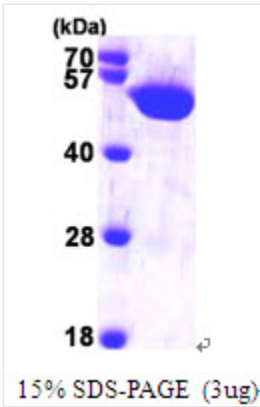
PRODUCT SYNONYMS

HARS; 1-509aa; Human; His tag; E Coli; Histidyl-tRNA synthetase cytoplasmic; FLJ20491; HRS; HisRS; Histidine--tRNA ligase; Histidyl-tRNA synthetase; cytoplasmic; HARS recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.
Concentration	1 mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSMAERAAL EELVKLQGER VRGLKQKAS AELIEEEVAK LLKLKAQLGP DESKQKFVLK TPKGTRDYSP RQMAVREKVF DVIIRCFKRH GAEVIDTPVF ELKETLMGKY GEDSKLIYDL KDQGGELLSL RYDLTVPFAR YLAMNKLTNI KRYHIAKVYR RDNPAMTRGR YREFYQCDFD IAGNFDPMIP DAECLKIMCE ILSSLQIGDF LVKVNDRIL 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
Sequence Length	509
Applicable Applications for HARS recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for HARS recombinant protein	HARS, also known as Histidyl-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. Recombinant human HARS protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques
Product Categories/Family for HARS recombinant protein	Enzymes & Proteases
References	Raben N., et al. (1992) Nucleic Acids Res. 20 (5):1075-81. ; O'Hanlon TP., et al. (2002) Biochem Biophys Res Commun. 294 (3):609-14.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	6996014
NCBI GeneID	3035
NCBI Accession #	NP_002100
NCBI GenBank Nucleotide #	NM_002109.5
UniProt Accession #	P12081; B4DHQ1; B4DY73; D6REN6; J3KNE5
Molecular Weight	59.4 kDa (532aa), confirmed by MALDI-TOF
NCBI Official Full Name	histidine--tRNA ligase, cytoplasmic isoform 1
NCBI Official Synonym Full Names	histidyl-tRNA synthetase
NCBI Official Symbol	HARS
NCBI Official Synonym Symbols	HRS; CMT2W; USH3B
NCBI Protein Information	histidine--tRNA ligase, cytoplasmic
UniProt Protein Name	Histidine--tRNA ligase, cytoplasmic
UniProt Gene Name	HARS
UniProt Synonym Gene Names	HRS; HisRS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

