

Recombinant Human Histidyl-tRNA synthetase

Cat. No. HARS-46H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Histidyl-tRNA Synthetase produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain having a molecular mass of 55 kDa. The Histidyl-tRNA Synthetase is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	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.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 90.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein solution (0.74 mg/ml) contains 150 mM NaCl and 10 mM sodium phosphate containing 0.1% NaN ₃ (pH 7.2).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Content	Protein quantitation was carried out by using 0.25 - 2.0 mg/ml Bradford assay vs. BSA.
Western Blot	Strongly reactive with human anti Histidyl-tRNA Synthetase antisera.
Stability	Lyophilized Histidyl-tRNA Synthetase although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.
GENE INFORMATION	
Gene Name	HARS histidyl-tRNA synthetase [Homo sapiens]
Synonyms	HARS; histidyl-tRNA synthetase; HRS; FLJ20491; histidine tRNA ligase 1, cytoplasmic; EC 6.1.1.21; HisRS; histidine-tRNA ligase
Gene ID	3035
mRNA Refseq	NM_002109
Protein Refseq	NP_002100
MIM	142810
UniProt ID	P12081
Chromosome Location	5q31.3
Pathway	Aminoacyl-tRNA biosynthesis; Gene Expression
Function	ATP binding; histidine-tRNA ligase activity; histidine-tRNA ligase activity; nucleotide

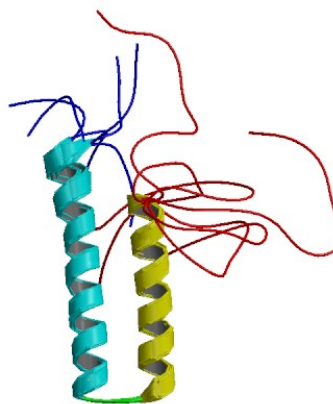
 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

binding

PDB rendering based
on 1x59.



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA