Recombinant Human Histidyl-tRNA Synthetase, His-tagged

Cat. No. HARS-369H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Histidyl-tRNA Synthetase produced in *baculovirus* is a single, glycosylated, polypeptide chain having a molecular mass of 58.3 kDa. The Histidyl-tRNA Synthetase is fused to 6xHis Tag and purified by proprietary chromatographic techniques.
Species	Human
Source	Sf9 Cells
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.
Formulation	The protein solution contains 20mM HEPES, 250mM sodium chloride 0.1% and 20% Glycerol, (pH 7.5).
Western Blot	Strongly reactive with human anti Histidyl-tRNA Synthetase antisera.

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

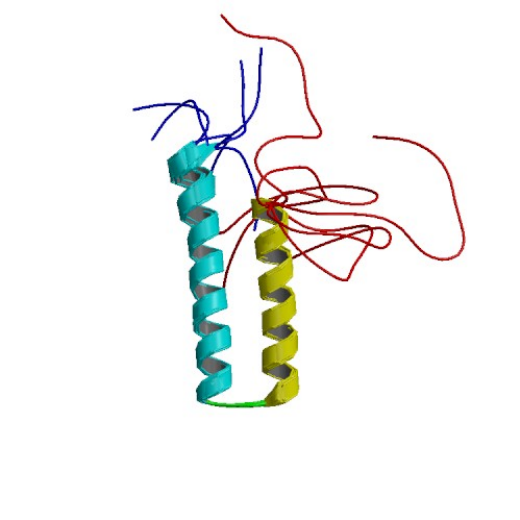
Purity	Greater than 90% as determined by SDS-PAGE.
Storage	Lyophilized Histidyl-tRNA Synthetase although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

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 binding

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

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