

## Recombinant Human HARS cell lysate

Cat. No. HARS-770HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Description</b>	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.
<b>Size</b>	100 ul
<b>Storage Buffer</b>	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
<b>Applications</b>	Western Blot;

### GENE INFORMATION

<b>Gene Name</b>	HARS histidyl-tRNA synthetase [ Homo sapiens ]
<b>Official Symbol</b>	HARS
<b>Synonyms</b>	HARS; histidyl-tRNA synthetase; histidine--tRNA ligase, cytoplasmic; histidine tRNA

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	ligase 1; cytoplasmic; HisRS; histidine transase; HRS; USH3B; FLJ20491;
<b>Gene ID</b>	<a href="#">3035</a>
<b>mRNA Refseq</b>	<a href="#">NM_001258040</a>
<b>Protein Refseq</b>	<a href="#">NP_001244969</a>
<b>MIM</b>	<a href="#">142810</a>
<b>UniProt ID</b>	<a href="#">P12081</a>
<b>Chromosome Location</b>	5q31.3
<b>Pathway</b>	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;
<b>Function</b>	ATP binding; histidine-tRNA ligase activity; ligase activity; nucleotide binding;

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