Recombinant Human HARS2, GST-tagged

Cat. No. HARS2-13670H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HARS2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-350a.a.(C-164a.a.)
Description	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is an enzyme belonging to the class II family of aminoacyl-tRNA synthetases. Functioning in the synthesis of histidyl-transfer RNA, the enzyme plays an accessory role in the regulation of protein biosynthesis. The gene is located in a head-to-head orientation with HARS on chromosome five, where the homologous genes share a bidirectional promoter.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	HARS2 histidyl-tRNA synthetase 2, mitochondrial (putative) [Homo sapiens]

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Official Symbol	HARS2
Synonyms	HARS2; histidyl-tRNA synthetase 2, mitochondrial (putative); HARSL, histidyl tRNA synthetase like; probable histidine--tRNA ligase, mitochondrial; HARSR; histidine tRNA ligase 2; mitochondrial (putative); HO3; hisRS; HARS-related; histidine translase; histidine-tRNA ligase homolog; probable histidyl-tRNA synthetase, mitochondrial; histidine tRNA ligase 2, mitochondrial (putative); HARSL;
Gene ID	23438
mRNA Refseq	NM_012208
Protein Refseq	NP_036340
MIM	600783
UniProt ID	P49590
Chromosome Location	5q31.3
Pathway	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Gene Expression, organism-specific biosystem; Mitochondrial tRNA aminoacylation, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;
Function	ATP binding; histidine-tRNA ligase activity; ligase activity; nucleotide binding;

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