

Recombinant Human HARS2 Protein, His-tagged

Cat. No. HARS2-2228H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HARS2 Protein (Lys231-Ser506) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Lys231-Ser506
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 likely share a bidirectional promoter. Mutations in this gene are associated with the pathogenesis of Perrault syndrome, which involves ovarian dysgenesis and sensorineural hearing loss. Alternative splicing results in multiple transcript variants of this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.6 kDa Accurate Molecular Mass: 35 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	HARS2 histidyl-tRNA synthetase 2, mitochondrial (putative) [Homo sapiens (human)]
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 transase; histidine-tRNA ligase homolog; probable histidyl-tRNA synthetase, mitochondrial; histidine tRNA ligase 2, mitochondrial (putative); HARSL;
Gene ID	23438

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mRNA Refseq	NM_012208
Protein Refseq	NP_036340
MIM	600783
UniProt ID	P49590

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