Recombinant Full Length Human HARS Protein, GST-tagged

Cat. No. HARS-3412HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HARS full-length ORF (AAH11807, 1 a.a. - 509 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	509 amino acids
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. [provided by RefSeq
Molecular Mass	81.73 kDa
AA Sequence	MAERAALEELVKLQGERVRGLKQQKASAELIEEEVAKLLKLKAQLGPDESKQKFVLK TPKGTRDYSPRQMAVREKVFDVIIRCFKRHGAEVIDTPVFELKETLMGKYGEDSKLIY DLKDQGGELLSLRYDLTVPFARYLAMNKLTNIKRYHIAKVYRRDNPAMTRGRYREFY QCDFDIAGNFDPMIPDAECLKIMCEILSSLQIGDFLVKVNDRRILDGMFAICGVSDSKF RTICSSVDKLDKVSWEEVKNEMVGEKGLAPEVADRIGDYVQQHGGVSLVEQLLQDP

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	KLSQNKQALEGLGDLKLLFEYLTLFGIDDKISFDLSLARGLDYYTGVIYEAVLLQTPAQ AGEEPLGVGSVAAGGRYDGLVGMFDPKGRKVPCVGLSIGVERIFSIVEQRLEALEEK IRTTETQVLVASAQKKLLEERLKLVSELWDAGIKAELLYKKNPKLLNQLQYCEEAGIPL VAIIGEQELKDGVIKLRSVTSREEVDVRREDLVEEIKRRTGQPLCIC
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	HARS histidyl-tRNA synthetase [Homo sapiens]
Official Symbol	HARS
Synonyms	HARS; histidyl-tRNA synthetase; histidine--tRNA ligase, cytoplasmic; histidine tRNA ligase 1; cytoplasmic; HisRS; histidine translase; HRS; USH3B; FLJ20491;
Gene ID	3035
mRNA Refseq	NM_001258040
Protein Refseq	NP_001244969

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MIM	142810
UniProt ID	P12081

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