

Recombinant Human HARS Protein, GST-tagged

Cat. No. HARS-4580H **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	Wheat Germ
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	MAERAALEELVKLQGERVRGLKQQKASAELEEVEAKLLKLKAQLGPDESKQKFVLK TPKGTRDYSRQMAVREKVFVDVIIRCFKRHGAEVIDTPVFELKETLMGKYGEDSKLIY DLKDQGGELLRLYDLTVPFARYLAMNKLNIKRYHIAKVYRRDNPAMTRGRYREFY QCDFDIAGNFDPMPDAECLKIMCEILSSLQIGDFLVKVNDRRILDGMFAICGVSDSKF RTICSSVDKLDKVSWEVKNEVMGEKGLAPEVADRIGDYVQQHGGVSLVEQLLQDP KLSQNKQALEGLGDLKLLFEYLTFLGIDDKISFDLSLARGLDYYTGVIYEAVLLQTPAQ

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AGEEPLGVGSVAAGGRYDGLVGMFDPKGRKVPCVGLSIGVERIFSIVEQRLEALEEK
 IRTTETQVLVASAQKKLLEERLKLSELWDAGIKAELLYKKNPKLLNQLQYCEEAGIPL
 VAIIGEQLKDGVIKLRSVTSREEVDVRREDLVEEIKRRTGQPLCIC

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

MIM

142810

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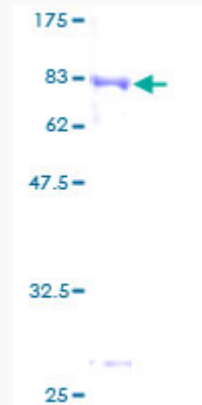
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UniProt ID

P12081

Quality Control
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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