

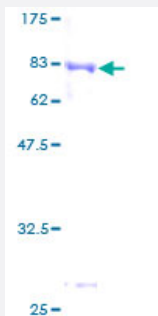
Full-Length

HARS (Human) Recombinant Protein (P01)

Catalog # H00003035-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HARS full-length ORF (AAH11807, 1 a.a. - 509 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAERAAL EELVKLQGERV RGLKQQKASAE LIEEEVAKLLKLKAQLGPDESKQKFVLKTPKGTRD
YSPRQMAVREKVF DVIIRCFKRHGA EVIDTPVFELKETLMGKYGEDSKLYDLKDQGGELLSRYDL
TVPFARYLAMNKL TNIKRYHIAKVYRRDNPAMTRGRYREFYQCDFDIAGNFDPMIPDAECLKIMCEIL
SSLQIGDFLVKVND RRLDGMFAICGVSDSKFRTICSSVDKLDKVSWE EVKNEMVGEKGLAPEVA
DRIGDYVQQHGGVSLVEQLLQDPKLSQNKQALEGLGDLKLLFEYLT LFGIDDKISFDLSLARGLDY
YTGVIYEAVLLQTPAQAGEEPLGVGSVAAGGRYDGLVGMFDPKGRKVPCVGLSIGVERIFSIVEQR
LEALEEKIRT TETQVLVASAQKKLLEERLKL VSELWDAGIKAELLYKKNPKLLNQLQYCEEAGIPLV
AIGEQLKDGVIKLR SVTSREEVDVRREDLV EEEKRRTGQPLCIC

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

81.73

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HARS

Entrez GeneID[3035](#)**GeneBank Accession#**[BC011807](#)**Protein Accession#**[AAH11807](#)**Gene Name**

HARS

Gene Alias

FLJ20491, HRS

Gene Description

histidyl-tRNA synthetase

Omim ID[142810](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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]

Other Designations

HisRS|histidine tRNA ligase 1, cytoplasmic|histidine transylase|histidine-tRNA ligase

Pathway

- [Aminoacyl-tRNA biosynthesis](#)