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	MAERAALEELVKLQGERVRGLKQQKASAELIEEEVAKLLKLKAQLGPDESKQKFVLKTPKGTRD YSPRQMAVREKVFDVIIRCFKRHGAEVIDTPVFELKETLMGKYGEDSKLIYDLKDQGGELLSLRYDL TVPFARYLAMNKLTNIKRYHIAKVYRRDNPAMTRGRYREFYQCDFDIAGNFDPMIPDAECLKIMCEIL SSLQIGDFLVKVNDRRILDGMFAICGVSDSKFRTICSSVDKLDKVSWEEVKNEMVGEKGLAPEVA DRIGDYVQQHGGVSLVEQLLQDPKLSQNKQALEGLGDLKLLFEYLTLFGIDDKISFDLSLARGLDY YTGVIYEAVLLQTPAQAGEEPLGVGSVAAGGRYDGLVGMFDPKGRKVPCVGLSIGVERIFSIVEQR LEALEEKIRTTETQVLVASAQKKLLEERLKLVSELWDAGIKAELLYKKNPKLLNQLQYCEEAGIPLV AIIGEQELKDGVIKLRSVTSREEVDVRREDLVEEIKRRTGQPLCIC
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 translase|histidine-tRNA ligase

Pathway

- Aminoacyl-tRNA biosynthesis