

## HARS Human, His

**Description:**HARS Human Recombinant fused with a 23 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 532 amino acids (1-509 a.a.) and having a molecular mass of 59.4kDa. The HARS is purified by proprietary chromatographic techniques.

Catalog #:ENPS-008

For research use only.

**Synonyms:**Histidyl-tRNA synthetase cytoplasmic, Histidine-tRNA ligase, HisRS, HARS, HRS, FLJ20491.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSMARAAL EELVKLQGER  
VRGLKQKAS AELIEEEVAK LLKLAQLGP DESKQKFVLK TPKGTRDYSR RQMAVREKVF  
DVIIRCFKRH GAEVIDTPVF ELKETLMGKY GEDSKLIYDL KDQGGELLSL RYDLTVPFAR  
YLAMNKLNI KRYHIAKVYR RDNPAMTRGR YREFYQCDFD IAGNFDPMIP DAECKIMCE  
ILSSLQIGDF LV

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The HARS solution (1 mg/ml) contains 20mM Tris-HCl buffer(pH 8.0), 10% glycerol, 1mM DTT and 0.1M NaCl.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks.Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Histidyl-tRNA synthetase (HARS) functions to catalyze the aminoacylation of tRNAs by their corresponding amino acids. HARS is a member of the class II family of aminoacyl-tRNA synthetases. HARS is responsible for the synthesis of histidyl-transfer RNA, which is vital for the incorporation of histidine into proteins. HARS is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis.

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