
Product Data Sheet

Product Name: HARS Human, His

Cat. No.: GP21776

Batch No.: 1

Product Data

Purity >98%

Source Escherichia Coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms Histidyl-tRNA synthetase cytoplasmic; Histidine--tRNA ligase; HisRS; HARS; HRS; FLJ20491.

Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMAERAAL EELVKLQGER VRGLKQQKAS
 AELIEEEVAK LLKLKAQLGP DESKQKFVLK TPKGTRDYSP RQMAVREKVF
 DVIIRCFKRH GAEVIDTPVF ELKETLMGKY GEDSKLIYDL KDQGGELLSL
 RYDLTVPFAR YLAMNKLTNI KRYHIAKVYR RDNPAMTRGR YREFYQCDFD
 IAGNFDPMIP DAELCKIMCE ILSSLQIGDF LVKVNDRRIL DGMFAICGVS
 DSKFRTICSS VDKLDKVSWE EVKNEMVGEK GLAPEVADRI GDYVQQHGGV
 SLVEQLLQDP KLSQNKQALE GLGDLKLLFE YLTLFGIDDK ISFDLSLARG
 LDYYTGVIYE AVLLQTPAQA GEEPLGVGSV AAGGRYDGLV GMFDPKGRKV
 PCVGLSIGVE RIFSIVEQRL EALEEKIRTT ETQVLVASAQ KKLLLEERLKL
 VSELWDAGIK AELLYKKNPK LLNQLQYCEE AGIPLVAIIG EQELKDGVIK
 LRSVTSREEV DVRREDLVEE IKRRTGQPLC IC.

Formulation

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

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA