
Product Data Sheet

Product Name: YARS Human

Cat. No.: GP22404

Batch No.: 1

Product Data

Purity >98%

Source Escherichia Coli.

Physical
Appearance solidShipping
Condition Shipped with Ice Packs.

Synonyms

Tyrosyl-tRNA synthetase cytoplasmic; Tyrosyl--tRNA ligase; TyrRS; YARS; YRS; YTS; CMTDIC.

Amino Acid
Sequence

MGSSHHHHHH SSGLVPRGSH MGDAPSPEEK LHLITRNLQE VLGEEKLKEI
 LKERELKIYW GTATTGKPHV AYFVPMSKIA DFLKAGCEVT ILFADLHAYL
 DNMKAPWELL ELRVSYENV IKAMLESIGV PLEKLFKIFG TDYQLSKEYT
 LDVYRLSSVV TQHDSKKAGA EVVKQVEHPL LSGLLYPGLQ ALDEEYLKVD
 AQFGGIDQRK IFTFAEKYLP ALGYSKRVHL MNPMVPGLTG SKMSSESEES
 KIDLLDRKED VKKKLKKAFK EPGNVENNGV LSFIKHVLFP LKSEFVILRD
 EKWGGNKTYT AYVDLEKDFK AEVVHPGDLK NSVEVALNKL LDPIREKFNT
 PALKKLASAA YPDPSKQKPM AKGPAKNSEP EEVIPSRLDI RVGKIITVEK
 HPDADSLYVE KIDVGEAEPR TVVSGLVQFV PKEELQDRLV VVLCNLKPQK
 MRGVESQGML LCASIEGINR QVEPLDPPAG SAPGEHVFKV GYEKGQPDEE
 LKPKKKVFEK LQADFKISEE CIAQWKQTNF MTKLGSISCK SLKGGNIS.

Formulation

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

Introduction

Tyrosyl-tRNA synthetase (YARS) is a member of the class I tRNA synthetase family. YARS is a vital enzyme which catalyzes the aminoacylation of tRNA^{Trp} with tryptophan, a critical function of the cell's protein synthesis machinery. Expression of YARS is highly stimulated in human cells by the addition of IFN-gamma.

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

YARS produced in E.Coli is a single, non-glycosylated polypeptide chain containing 548 amino acids (1-528 a.a.) and having a molecular mass of 61.3kDa. YARS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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