

YARS Human

Description: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.

Catalog #:ENPS-141

Synonyms:Tyrosyl-tRNA synthetase cytoplasmic, Tyrosyl-tRNA ligase, TyrRS, YARS, YRS, YTS, CMTDIC.

For research use only.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHH SSGLVPRGSH MGDAPSPEEK LHLITRNLQE
VLGEEKLKEI LKERELKIYW GTATTGKPHV AYFVPMSKIA DFLKAGCEVT ILFADLHAYL
DNMKAPWELL ELRVSYENV IKAMLESIGV PLEKLKFIKG TDYQLSKEYT LDVYRLSSVV
TQHDSKKAGA EVVKQVEHPL LSGLLYPGLQ ALDEEYLKVD AQFGGIDQRK IFTFAEKYLP
ALGYSKRVHL MN

Purity:Greater than 90.0% as determined by SDS-PAGE.

Formulation:

YARS protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol 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:

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 cells protein synthesis machinery. Expression of YARS is highly stimulated in human cells by the addition of IFN-gamma.

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