

## YARS2 Human

**Description:**YARS2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 482 amino acids (17-477 a.a.) and having a molecular mass of 53.7kDa.YARS2 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-621

For research use only.

**Synonyms:**Tyrosine--tRNA ligase mitochondrial, Tyrosyl-tRNA synthetase, TyrRS, YARS2, CGI-04, TYRRS, MLASA2, MT-TYRRS.

**Source:**Escherichia Coli.

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

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MTLNLSVLLP LGLRKAHSGA  
QGLLAAQKAR GLFKDFFPET GTKIELPELF DRGTASFPQT IYCGFDPTAD SLHVGHLLAL  
LGLFHLQRAG HNVIALVGGA TARLGDPGR TKEREALETE RVRANARALR LGLEALAAH  
QQFTDGRSW GSFTVLDNSA WYQKQHLVDF LAAVGGHFRM GTLLSRQSVQ LRLKSPEGMS  
LAEFFYQVLQ AY

**Purity:**Greater than 85.0% as determined by SDS-PAGE.

### Formulation:

YARS2 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT.

### 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 (YARS2) is a mitochondrial protein which catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and afterward transferred to the acceptor end of tRNA(Tyr). YARS2 gene mutations are linked with myopathy with lactic acidosis and sideroblastic anemia type 2 (MLASA2).

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