
Product Data Sheet

Product Name: YARS2 Human

Cat. No.: GP22405

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tyrosine--tRNA ligase mitochondrial; Tyrosyl-tRNA synthetase; TyrRS; YARS2; CGI-04; TYRRS; MLASA2; MT-TYRRS.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MTLNLSVLLP LGLRKAHSGA QGLLAAQKAR GLFKDFFPET GTKIELPELF DRGTASFPQT IYCGFDPTAD SLHVGHLLAL LGLFHLQRAG HNVIALVGGA TARLGDPSSGR TKEREALETE RVRANARALR LGLEALAANH QQLFTDGRSW GSFTVLDNSA WYQKQHLVDF LAAVGGHFRM GTLLSRQSVQ LRLKSPEGMS LAEFFYQVLQ AYDFYLLFQR YGCRVQLGGS DQLGNIMSGY EFINKLTGED VFGITVPLIT STTGAKLGKS AGNAVWLNDR KTSPFELYQF FVRQPDDSV E RYLKLF TFLP LPEIDHIMQL HVKEPERRGP QKRLAAEVTK LVHGREG LDS AKRCTQALYH SSIDALEVMS DQELKELFKE APFSEFFLDP GTSVLDT CRK ANAIPDGPRG YRMITEGGVS INHQQVTNPE SVLIVGQHIL KNGLSLLKIG KRNFYI IKWL QL.		
Formulation	YARS2 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT.		

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).

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.

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

Background

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.

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