

## Tyrosyl-tRNA Synthetase 2 Human Recombinant

<b>Item Number</b>	rAP-1871
<b>Synonyms</b>	Tyrosine--tRNA ligase mitochondrial, Tyrosyl-tRNA synthetase, TyrRS, YARS2, CGI-04, TYRRS, MLASA2, MT-TYRRS.
<b>Description</b>	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.
<b>Uniprot Accession Number</b>	Q9Y2Z4
<b>Amino Acid Sequence</b>	MGSSHHHHH SSGLVPRGSH MTLNLSVLLP LGLRKAHSGA QGLLAAQKAR GLFKDFFPET GTKIEL-PELF DRGTASFPQT IYCGFDPTAD SLHVGHLLAL LGLFHLQRAG HNVIALVGGA TARLGDPSGR TKEREALETE RVRANARALR LGLEALAANH QQLFTDGRSW GSFTVLDNSA WYQKQHLVDF LAA-VGGHFRM GTLLSRQSVQ LRLKSPEGMS LAEFFYQVLQ AYDFYLFQR YGCRVQLGGS DQLGNIMSGY EFINKLTGED VFGITVPLIT STTGAKLGKS AGNAVWLNRD KTSPFELYQF FVRQPDDSV E RYLKLF TFLP LPEIDHIMQL HVKEPERRGP QKRLAAEVTK LVHGREGLDS AKRCTQALYH SSIDALEVMS DQELKELFKE APFSEFFLDP GTSVLDTCRK ANAIPDGPRG YRMITEGGVS INHQQVTNPE SVLIVGQHIL KNGLSLLKIG KRNFYIWKWL QL.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered colorless solution. 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.
<b>Formulation and Purity</b>	YARS2 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT. Greater than 85.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**