

**YARS2, 17-477aa, Human, His tag, E.coli**

**Cat.NO.: TP04518**

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3th Edition

**Synonyms:** Tyrosyl-tRNA synthetase, mitochondrial precursor, CGI-04, FLJ13995, MLASA2, MT-TYRRS, TYRRS

**Description:** YARS2, also known as tyrosyl-tRNA synthetase, catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr). Recombinant human YARS2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

**Form:** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

**Molecular Weight:** 53.7 kDa (482aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMTLNLSVLLPLGLRKAHSGAQGLLAAQKARGLFKDFFPETGTKIELPELFDRTAS  
FPQTIYCGFDPTADSLHVGHLLALLGLFHLQRAGHNVIALVGGATARLGDPSGRTKEREALETERVRANARALRLGL  
EALAAHQQLFTDGRSWGVSFTVLDNSAWYQKQHLVDFLAAVGGHFRMGTLTLLSRQSVQLRLKSPEGMSLAEFFYQ  
VLQAYDFYFLFQRYGCRVQLGGSDQLGNIMSGYEFINKLTGEDVFGITVPLITSTTGAKLGKSAGNAVWLNDRDKTSP  
FELYQFFVRQPDDSEVERYLKLFTHLPLPEIDHIMQLHVKEPERRGPQKRLAAEVTKLVHGREGLDIAKRCTQALYHS  
SIDALEVMSDQELKELFKEAPFSEFFLDPGTSVLDTCRKANAI PDGPRGYRMITGGVSIHQVQVTPNPESVLIVGQHI  
LKNGLSLLKIGKRNFYIIKWLQL

**Purity:** > 95% by HPLC

**Concentration:** 0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.