

Product information

YARS2 17-477aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1554

Full name: Tyrosyl-tRNA synthetase, mitochondrial precursor

NCBI Accession No.: NP_001035526

Synonyms: CGI-04, FLJ13995, MLASA2, MT-TYRRS, TYRRS

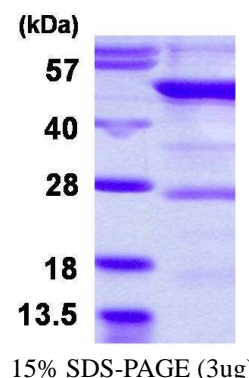
Description: YARS2, also known as tyrosyl-tRNA synthetase, catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr). Recombinant human YARS2 protein, fused to His-tag at N-terminus,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

Purity: > 85% by SDS - PAGE

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



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MTLNLSVLLP LGLRKAHSGA QGLLAAQKAR GLFKDFFPET GTKIELPELF DRGTASFPQT IYCGFDPTAD
SLHVGHLAL LGLFHLQRAG HNVIALVGGG TARLDPSGR TKERELETE RVRANARALR LGLEALAANH QQLFTDGRSW GSFTVLDNSA
WYQKQHLVDF LAAVGGHFRM GTLLSRQSVQ LRLKSPEGMS LAEFFYQVLQ AYDFYLFQR YGCRVQLGGS DQLGNIMSGY EFINKLTGED
VFGITVPLIT STTGAKLGKS AGNAVWLNRD KTSPFELYQF FVRQPDDSVE RYLKLFITFLP LPEIDHIMQL HVKEPERRGP QKRLLAAEVTK
LVHGREGLDK AKRCTQALYH SSIDALEVMS DQELKELFKE APFSEFFLDP GTSVLDTCRK ANAIPDGPRG YRMITEGGVS INHQQVTNPE
SVLIVGQHIL KNGLSLLKIG KRNFYI IKWL QL

General references:

Bonnefond L., *et al.* (2005) *Biochemistry*. 44:4805-4816

Riley L.G., *et al.* (2010) *Am. J. Hum. Genet.* 87:52-59

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.