

**AR50378PU-N****Human YARS2 (17-477, His-tag) - Purified**

<b>Alternate names:</b>	CGI-04, TyrRS, Tyrosine-tRNA ligase, Tyrosyl-tRNA synthetase mitochondrial
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.25 mg/ml (determined by Bradford assay)
<b>Background:</b>	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).
<b>Uniprot ID:</b>	<a href="#">Q9Y2Z4</a>
<b>NCBI:</b>	<a href="#">NP_001035526</a>
<b>GeneID:</b>	<a href="#">51067</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >85% by SDS - PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
<b>Description:</b>	Recombinant human YARS2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. <b>AA Sequence:</b> MGSSHHHHH SSGLVPRGSH MTLNLSVLLP LGLRKAHSGA QGLLAAQKAR GLFKDFFPET GTKIELPELF DRGTASFPQT IYCGFDPTAD SLHVGHLLAL LGLFHLQRAG HNVIALVGGGA TARLGDPGRG TKEREALETE RVRANARALR LGLEALAANH QQLFTDGRSW GSFTVLDNSA WYQKQHLVDF LAAVGGHFRM GTLLSRQSVQ LRLKSPEGMS LAEFFYQVLQ AYDFYYLFQR YGCVRQLGGS DQLGNIMSGY EFINKLTGED VFGITVPLIT STTGAKLGKS AGNAVWLNDR KTSPPFELYQF FVRQPDDSV ERYLKLFTFLP LPEIDHIMQL HVKEPERRGP QKRLAAEVTK LVHGREGGLDS AKRCTQALYH SSIDALEVMS DQELKELFKE APFSEFFLDP GTSVLDTCRK ANAIPDGPRG YRMITEGGVS INHQQVTNPE SVLIVGQHIL KNGLSLLKIG KRNFYI IKWL QL <b>Molecular weight:</b> 53.7 kDa (482aa)
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Bonnefond L., et al. (2005) Biochemistry. 44:4805-4816 Riley L.G., et al. (2010) Am. J. Hum. Genet. 87:52-59

Pictures:

