

Tyrosyl-tRNA Synthetase Human Recombinant

Item Number	rAP-1856
Synonyms	Tyrosyl-tRNA synthetase cytoplasmic, Tyrosyl-tRNA ligase, TyrRS, YARS, YRS, YTS, CMTDIC.
Description	YARS produced in E.Coli is a single, non-glycosylated polypeptide chain containing 548 amino acids (1-528 a.a.) and having a molecular mass of 61.3kDa. YARS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	P54577
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGDAPSPEEK LHLITRNLQE VLGEEKLKEI LKERELKIYW GTATTGKPHV AYFVPMASKIA DFLKAGCEVT ILFADLHAYL DNMKAPWELL ELRVSYENV IKAMLESIGV PLEKLFKIKG TDYQLSKEYT LDVYRLSSVV TQHDSKKAGA EVVKQVEHPL LSGLLYPGLQ ALDEEYLKVD AQFGGIDQRK IFTFAEKYLP ALGYSKRVHL MNPMPVGLTG SKMSSSEEEES KID- LLDRKED VKKKLKKAFK EPGNVENNGV LSFIKHVLFP LKSEFVILRD EKWGGNKTYT AYVDLEKDFK AEVVHPGDLK NSVEVALNKL LDPIREKFNT PALKKLASAA YDPDSKQKPM AKGPAKNSEP EEVIPSRLDI RVGKIITVEK HPDADSLYVE KIDVGEAEPR TVVSGLVQFV PKEELQDRLV VVLCNLKPQK MRGVESQGML LCASIEGINR QVEPLDPPAG SAPGEHVFK GYEKGQPDEE LKPKKKVFEK LQADFKI-
Source	Escherichia Coli.
Physical Appearance and Stability	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.
Formulation and Purity	YARS protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	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**