

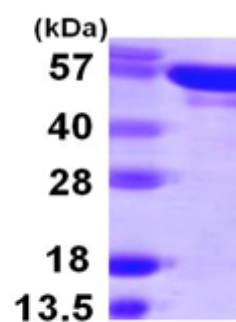
AR09995PU-L

Human YARS (1-528, His-tag) - Purified

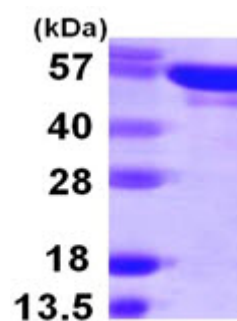
Alternate names:	TyrRS, Tyrosyl-tRNA ligase, Tyrosyl-tRNA synthetase cytoplasmic
Quantity:	0.25 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	Tyrosyl-tRNA synthetase, also known as YARS, belongs to the class I tRNA synthetase family. YARS is essential enzyme that catalyze the aminoacylation of tRNA ^{Trp} with tryptophan, an essential function of the cell's protein synthesis machinery. Expression of YARS is highly stimulated in human cells by the addition of IFN-gamma.
Uniprot ID:	P54577
NCBI:	NP_003671
GeneID:	8565
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
Description:	Recombinant human YARS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHH SGLVPRGSH MGDAPSPEEK LHLITRNLQE VLGEEKLKEI LKERELKIYW GTATTGKPHV AYFVPMKIA DFLKAGCEVT ILFADLHAYL DNMKAPWELL ELRVSYEENV IKAMLESIGV PLEKLKFIKG TDYQLSKEYT LDVYRLSSVV TQHDSSKAGA EVVKQVEHPL LSGLLYPGLQ ALDEEYLKVD AQFGGIDQRK IFTFAEKYLP ALGYSKRVLH MNPMVPGLTG SKMSSSEES KIDLLDRKED VKKKLKAFC EPGNVENNGV LSFIKHVLFP LKSEFVILRD EKWGGNKTYT AYVDLEKFA AEVVHPGDLK NSVEVALNKL LDPIREKFNT PALKKLASAA YPDPKQKPM AKGPAKNSEP EEVIPSRLDI RVGKIITVEK HPDADSLYVE KIDVGAEPR TVVSGLVQFV PKEELQDRLV VVLCNLKPQK MRGVESQGML LCASIEGINR QVEPLDPPAG SAPGEHVFK GYEKGQPDDE LKPKKKVFEK LQADFKISEE CIAQWKQTNF MTKLGSISCK SLKGGNIS Molecular weight: 61.3 kDa (548aa)
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Kise Y., et al. (2004) Nat Struct Mol Biol. 11:149-156. Wakasugi K., et al. (2002) Proc Natl Acad Sci . 99:173-177.

Pictures:

Recombinant human YARS, 1-528 aa, His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)