

## Recombinant Human YARS protein, His-tagged

Cat. No. YARS-991H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human YARS(1-528aa) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-528 a.a.
<b>Description</b>	Tyrosyl-tRNA synthetase, also known as YARS, belongs to the class I tRNA synthetase family. YARS is essential enzyme that catalyze the aminoacylation of tRNATrp 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.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
<b>Molecular Mass</b>	61.3 kDa (548aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSHILFADLHAYL DNMKAPWELL ELRVSYENV IKAMLESIGV PLEKLFIKG TDYQLSKEYT LDVYRLSSVV TQHDSKKAGA EYVVKQVEHPLLSGLLYPGLQ ALDEEYLKVD AQFGGIDQRK IFTFAEKYLP ALGYSKRVHL MNPMVPGLTG SKMSSSEES KIDLLDRKED VKKKLLKKAFCMGDAPSPEEK LHLITRNLQE VLGEEKLKEI LKERELKIYW

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GTATTGKPHV AYFVPMSKIA DFLKAGCEVTEPGNVENNGV LSFIKHVLFP  
 LKSEFVILRD EKWGGNKTYT AYVDLEK DFA AEVVHPGDLK NSVEVALNKL  
 LDPIREKFNT PALKKLASAAYPDPSKQKPM AKGPAKNSEP EEVIPSRLDI  
 RVGKIITVEK HPDADSLYVE KIDVGAEPR TVVSGLVQFV PKEELQDRLV  
 VVLCNLKPQKMRGVESQGML LCASIEGINR QVEPLDPPAG SAPGEHVFK  
 GYEKGQPDEE LKPKKKVF EK LQADFKISEE CIAQWKQTNF  
 MTKLGSISCKSLKGGNIS

**Purity** >90% by SDS - PAGE

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

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [YARS tyrosyl-tRNA synthetase \[ Homo sapiens \]](#)

**Official Symbol** [YARS](#)

**Synonyms** YARS; tyrosyl-tRNA synthetase; tyrosine--tRNA ligase, cytoplasmic; tyrosine tRNA ligase 1; cytoplasmic; tyrRS; YRS; YTS; tyrosyl--tRNA ligase; tyrosine tRNA ligase 1, cytoplasmic; tyrosyl-tRNA synthetase, cytoplasmic; TYRRS; CMTDIC;

**Gene ID** [8565](#)

**mRNA Refseq** [NM\\_003680](#)

**Protein Refseq** [NP\\_003671](#)

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<b>MIM</b>	603623
<b>UniProt ID</b>	P54577
<b>Chromosome Location</b>	1p35.1
<b>Pathway</b>	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;
<b>Function</b>	ATP binding; interleukin-8 receptor binding; ligase activity; nucleotide binding; signal transducer activity; tRNA binding; tyrosine-tRNA ligase activity;

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