

Recombinant Human YARS, His-tagged

Cat. No. YARS-31445TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Tyrosyl tRNA synthetase with an N terminal His tag ; predicted mwt: 61.3 kDa;
Species	Human
Source	E.coli
ProteinLength	528 amino acids
Description	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Tyrosyl-tRNA synthetase belongs to the class I tRNA synthetase family. Cytokine activities have also been observed for the human tyrosyl-tRNA synthetase, after it is split into two parts, an N-terminal fragment that harbors the catalytic site and a C-terminal fragment found only in the mammalian enzyme. The N-terminal fragment is an interleukin-8-like cytokine, whereas the released C-terminal fragment is an EMAP II-like cytokine.
Conjugation	HIS
Molecular Weight	61.300kDa inclusive of tags
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMGDAPSPEEKHLHLITRNLQEVLGEEKLKEILKERELK IYWGTTATGKPHVAYFVPMISKIADFLKAGCEVTILFADLHAYLDNMKAPWELLELRVS YYENVIKAMLESIGVPLEKLKFIKGTDYQLSKEYTLDVYRLSSVVTQHDSKKAGAEVV KQVEHPLL SGLLYPGLQALDEEYLKVDAQFGGIDQRKIFTFAEKYLPALGYSKRVHL MNPMVPGLTGSKMSSSEESKIDLLDRKEDVKKKLKKAFCPEGNVENNGVLSFIKHV LFPLKSEFVILRDEKWGGNKTYTAYVDLEKDFAAEVVHPGDLKNSVEVALNKLLDPIR EKFNTPALKKLASAAYPDPSKQKPKMAKGPKNSEPEEVIPSRLDIRVGKIITVEKHPD ADSLYVEKIDVGAEPRTVVSGLVQFVPKEELQDRLVVVLCNLKPQKMRGVESQGM LLCASIEGINRQVEPLDPPAGSAPGEHVFKGYEKGQPDDEELPKKKKVFEKLQADFK ISEECIAQWKQTNFMTKLGSISCKSLKGGNIS
Sequence Similarities	Belongs to the class-I aminoacyl-tRNA synthetase family. Contains 1 tRNA-binding domain.

GENE INFORMATION

Gene Name	YARS tyrosyl-tRNA synthetase [Homo sapiens]
Official Symbol	YARS
Synonyms	YARS; tyrosyl-tRNA synthetase; tyrosyl-tRNA synthetase, cytoplasmic; tyrosine tRNA ligase 1; cytoplasmic; tyrRS; YRS; YTS;

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Gene ID	8565
mRNA Refseq	NM_003680
Protein Refseq	NP_003671
MIM	603623
Uniprot ID	P54577
Chromosome Location	1p35.1
Pathway	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;
Function	ATP binding; interleukin-8 receptor binding; ligase activity; nucleotide binding; signal transducer activity;