

## Recombinant Human YARS protein, T7/His-tagged

Cat. No. YARS-207H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human YARS N-terminal fragment (Mini-TyrRA) cDNA (2 – 364 aa, derived from BC016689) fused with T7-His-TEV cleavage site Tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-364 a.a.
<b>Form</b>	0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Sucrose.
<b>AA Sequence</b>	MASMTGGGQQMGRGRHHHHHHENLYFQGGFEGDAPSPEEKLHLITRNLQEVLGEEKL KEILKERELKIYWGTATTGK PHVAYFVPMSKIADFLKAGCEVTILFADLHAYLDNMKA PWELLELRVSYVENVIKAMLESIGVPLEKLFKFGTD YQLSKEYTLDVYRLSSVVTQH DSKKAGAEVVKQVEHPLL SGLLYPGLQALDEEYLKVD AQFGGIDQRKIFTFAEK YLP ALGYSKRVHLMNPMV PGLTGSKMSSSEESKIDLLDRKEDVKKKLLKAFCEPGNVE NNGVLSFIKHVLFPLK SEFVILRDEKWGGNKTYTAYVDLEKDFAAEVVHPGDLKNSV EVALNKLLDPIREKFNT PALKKLASAAYPDPSKQ KPMAGKPAKNSEPEEVI
<b>Purity</b>	>90% by SDS-PAGE
<b>Applications</b>	1. May be used for in vitro Mini-YARS protein mediated interleukine-8 like activities regulation study with this protein as either coating matrix protein or soluble factor.2.

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May be used for Mini-YARS protein – protein interaction assay.<sup>3</sup> As Enzymatic substrate for various proteases.<sup>4</sup> May be used for specific antibody production.

**Storage**

Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 7 days.

## 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

**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,

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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;

**Function**

ATP binding; interleukin-8 receptor binding; ligase activity; nucleotide binding; signal transducer activity; tRNA binding; tyrosine-tRNA ligase activity;

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