

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

**Cat. No.** YARS-230H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human YARS cDNA (2 – 528 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>    | 2-528 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>      | <p>MASMTGGQQMGRGHHHHHHENLYFQGGEFGDAPSPEEKLHLITRNLQEVLGEEKL<br/> KEILKERELKIYWGTATTGK PHVAYFVPMSKIADFLKAGCEVTILFADLHAYLDNMKA<br/> PWELLELRVSYVENVIKAMLESIGVPLEKLFKIKGTD YQLSKEYTLDVYRLSSVVTQH<br/> DSKKAGAEVVKQVEHPLL SGLLYPGLQALDEEYLVKVD AQFGGIDQRKIFTFAEK YLP<br/> ALGYSKRVHLMNPMVPGLTGSKMSSSEESKIDLLDRKEDVKKKLKKAFCPEGNVE<br/> NNGVLSFIKHVLFPLK SEFVILRDEKWGGNKTYTAYVDLEKDFAAEVVHPGDLKNSV<br/> EVALNKLLDPIREKFNTPALKKLASAAYDPDSKQ KPMAGPAKNSEPEEVIPSRLDIR<br/> VGKIITVEKHPDADSLYVEKIDVGEAEPRTVVSGLVQFVPKEELQDRLVVV LCNLKP<br/> QKMRGVESQGMLLCASIEGINRQVEPLDPPAGSAPGEHVFKGYEKGQPDEELKPK<br/> KKVFEKLQADFKI SEECIAQWKQTNFMTKLGSISCKSLKGGNIS</p> |
| <b>Purity</b>           | >90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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**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, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; tRNA Aminoacylation, organism-specific

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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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