

Recombinant Human YARS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. YARS-2511H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	YARS MS Standard C13 and N15-labeled recombinant protein (NP_003671) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	59.1 kDa
AA Sequence	MGDAPSPEEKHLITRNLQEVLGEEKLKEILKERELKIYWGTTATTGKPHVAYFVPMSK IADFLKAGCEVTILFADLHAYLDNMKAPWELLELRVSYENVIKAMLESIGVPLEKLFKI KGTDYQLSKEYTLDVYRLSSVVTQHDSKKAGAEVVKQVEHPLLSGLLYPGLQALDE EYLVDAQFGGIDQRKIFTFAEKYLPALGYSKRVHLMNPMVPGLTGSKMSSSEESK

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IDLLDRKEDVKKKLKAFCEPGNVENNGVLSFIKHVLFPLKSEFVILRDEKWGGNKTY
TAYVDLEKDFAAEVVHPGDLKNSVEVALNKLLDPIREKFNTPALKKLASAAYPDPSK
QKPMAGPAKNSEPEEVIPSRDLIRVGKIITVEKHPDADSLYVEKIDVGAEPRTVVS
GLVQFVPKEELQDRLVVVLCNLKPQKMRGVESQGMLLCASIEGINRQVEPLDPPAG
SAPGEHV FVKGYEKGQPDEELKPKKKVFEKLQADFKISEECIAQWKQTNFMTKLGSI
SCKSLKGGNISTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name YARS tyrosyl-tRNA synthetase [Homo sapiens (human)]

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

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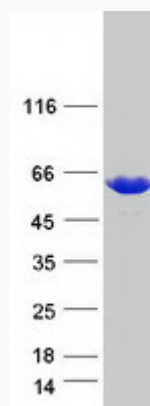
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Protein Refseq NP_003671

MIM 603623

UniProt ID P54577

SDS-PAGE



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