

Recombinant Full Length Human YARS1 Protein, C-Flag-tagged

Cat. No. YARS1-2164HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human YARS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	59 kDa
AA Sequence	MGDAPSPEEKLHLITRNLQEVLGEEKLKEILKERELKIYWGTATTGKPHVAYFVPM SK IADFLKAGCEVT ILFADLHAYLDNMKAPWELLELRVSYENVIKAMLESIGVPLEKLKF IKGTDYQLSKEYTLDVYRLSSV TQHDSKKAGAEVVKQVEHPLL SGLLYPGLQALDE

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EYLKVDAQFGGIDQRKIFTFAEKYLPALGYSKRVHL MNPMVPGLTGSKMSSSEES
 KIDLLDRKEDVKKKLKKAFCPEPGNVENNGVLSFIKHVLFPLKSEFVILRD EKWGGNK
 TYTAYVDLEKDFAAEVVHPGDLKNSVEVALNKLLDPIREKFNTPALKKLASAAYPDPS
 KQKPM AKGPAKNSEPEEVIPSRLDIRVGKIITVEKHPDADSLYVEKIDVGAEPRTVV
 SGLVQFVPKEELQDRLV VVLCNLKPQKMRGVESQGMLLCASIEGINRQVEPLDPPA
 GSAPGEHVFVKGYEKGQPDEELPKKKVFEK LQADFKISEECIAQWKQTNFMTKLG
 SISCKSLKGGNIS TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Aminoacyl-tRNA biosynthesis
Full Length	Full L.

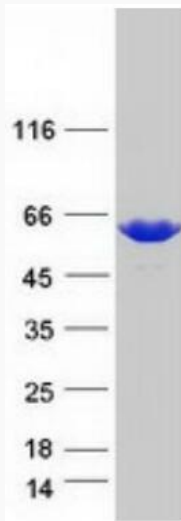
GENE INFORMATION

Gene Name	YARS1 tyrosyl-tRNA synthetase 1 [Homo sapiens (human)]
Official Symbol	YARS1

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Synonyms	YRS; YTS; YARS; TYRRS; CMTDIC; IMNEPD2
Gene ID	8565
mRNA Refseq	NM_003680.4
Protein Refseq	NP_003671.1
MIM	603623
UniProt ID	P54577
 Coomassie blue staining of purified YARS1 protein.	