

Recombinant Human YARS protein, His & T7-tagged

Cat. No. YARS-8216H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human YARS aa. (Gly2~Ser528 (Accession # P54577)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly2~Ser528
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 62.7kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 6.6.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	YARS tyrosyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	YARS
Synonyms	YARS; tyrosyl-tRNA synthetase; YRS; YTS; TYRRS; CMTDIC; tyrosine--tRNA ligase, cytoplasmic; tyrosine tRNA ligase 1, cytoplasmic; tyrosyl--tRNA ligase; tyrosyl-tRNA synthetase, cytoplasmic
Gene ID	8565

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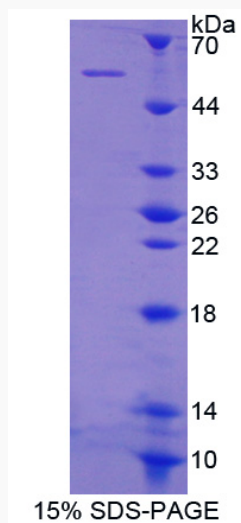
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mRNA Refseq NM_003680.3

Protein Refseq NP_003671.1

UniProt ID P54577

SDS-PAGE



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