

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

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

### SPECIFICATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 6.6.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage Buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

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

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mRNA Refseq [NM\\_003680.3](#)

Protein Refseq [NP\\_003671.1](#)

UniProt ID [P54577](#)

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