

YARS1 Protein, Human, Recombinant (GST)

General Information

Synonyms:	Tyrosine--tRNA ligase, cytoplasmic;YARS1;YARS;Tyrosyl-tRNA synthetase (TyrRS);cytoplasmic
Protein Construction:	2-528 aa
Species:	Human
Expression Host:	E. coli
Accession:	P54577
Molecular Weight:	86.0 kDa (predicted)
AA Sequence:	GDAPSPEEKLHLITRNLQEVLGEEKLKEILKERELKIYWGTTATTGKPHVAYFVPMISKIADFLKAGCEVTILFADLH AYLDNMKAPWELLELRVSYENVIKAMLESIGVPLEKLFKIGTDYQLSKEYTLDVYRLSSVVTQHDSKKAGAE VVKQVEHPLLSGLLYPGLQALDEEYLVKVDAAQFGGIDQRKIFTFAEKYLPALGYSKRVHLMNPMVPGTGSKMS SSEESKIDLLDRKEDVKKLKKAFCEPGNVENNGVLSFIKHVLFPLKSEFVILRDEKWGGNKTYTAYVDLEKD FAAEVHVPGLDKNSVEVALNKLLDPIREKFNTPALKKLASAAYPDPKQKPKMAKPAKNSEPEEVIPSRLDIR VGKIITVEKHPDADSLYVEKIDVGEAEPRTVVVSGLVQFVPKEELQDRLVVVLCNLKPQKMRGVESQGMLLCASI EGINRQVEPLDPPAGSAPGEHVFKGYEKQPDEELPKKKVFEKLQADFKISEECIAQWKQTNFMTKLGSI CKSLKGGNIS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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