

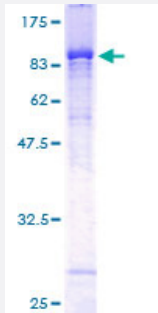
Full-Length

YARS (Human) Recombinant Protein (P02)

Catalog # H00008565-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human YARS full-length ORF (AAH01933, 1 a.a. - 528 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGDAPSPEEKLHLITRNLQEVLGEEKLKEILKERELKIYWGTTGKPHVAYFVPMISKIADFLKAGC
EVTILFADLHAYLDNMKAPWELLELRVSYENVIKAMLESIGVPLEKLKFIKGTDYQLSKEYTLDVYR
LSSVVTQHDSKKAGAEVVKQVEHPLL SGLLYPGLQALDEEYLVKDAQFGGIDQRKIFTFAEKYLP
ALGYSKRVHLMNPMVPGLTGSKMSSSEESKIDLLDRKEDVKKKLKKAFCPEGNVENNGVLSFI
KHVLFPLKSEFVILRDEKWGGNKTYTAYVDLEKDFAAEVVHPGDLKNSVEVALNKLLDPIREKFNT
PALKKLASAAYDPSPKQKPKMAKGPKNSEPEEVIPSRDIRVGKIITVEKHPDADSLYVEKIDVGE
AEPRTVVSGLVQFVPKEELQDRLVVVLCNLKPQKMRGVESQGMLLCASIEGINRQVEPLDPPAG
SAPGEHVFVKGYEKGQPDEELKPKKKVFEKLQADFKISEECIAQWKQTNFMTKLGSISCKSLKG
GNIS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

83.82

Interspecies Antigen Sequence

Rat (95)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — YARS

Entrez GeneID	8565
GeneBank Accession#	BC001933
Protein Accession#	AAH01933
Gene Name	YARS
Gene Alias	CMTDIC, TYRRS, YRS, YTS
Gene Description	tyrosyl-tRNA synthetase
Omim ID	603623 608323
Gene Ontology	Hyperlink

Gene Summary	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. [provided by RefSeq]
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Other Designations

OTTHUMP00000004027|tyrosine tRNA ligase 1, cytoplasmic

Pathway

- [Aminoacyl-tRNA biosynthesis](#)