Recombinant Human YARS protein, T7/His-tagged

Cat. No. YARS-207H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human YARS N-terminal fragment (Mini-TyrRA) cDNA (2 – 364 aa, derived from BC016689) fused with T7-His-TEV cleavage site Tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-364 a.a.
Form	0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Sucrose.
AA Sequence	MASMTGGQQMGRGHHHHHHENLYFQGGEFGDAPSPEEKLHLITRNLQEVLGEEKL KEILKERELKIYWGTATTGK PHVAYFVPMSKIADFLKAGCEVTILFADLHAYLDNMKA PWELLELRVSYYENVIKAMLESIGVPLEKLKFIKGTD YQLSKEYTLDVYRLSSVVTQH DSKKAGAEVVKQVEHPLLSGLLYPGLQALDEEYLKVDAQFGGIDQRKIFTFAEK YLP ALGYSKRVHLMNPMVPGLTGSKMSSSEEESKIDLLDRKEDVKKKLKKAFCEPGNVE NNGVLSFIKHVLFPLK SEFVILRDEKWGGNKTYTAYVDLEKDFAAEVVHPGDLKNSV EVALNKLLDPIREKFNTPALKKLASAAYPDPSKQ KPMAKGPAKNSEPEEVI
Purity	>90% by SDS-PAGE
Applications	1. May be used for in vitro Mini-YARS protein mediated interleukine-8 like activities regulation study with this protein as either coating matrix protein or soluble factor.2.

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	May be used for Mini-YARS protein – protein interaction assay.3. As Enzymatic substrate for various proteases.4. May be used for specific antibody production.
Storage	Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 7 days.

GENE INFORMATION

Gene Name	YARS tyrosyl-tRNA synthetase [Homo sapiens]
Official Symbol	YARS
Synonyms	YARS; tyrosyl-tRNA synthetase; tyrosine--tRNA ligase, cytoplasmic; tyrosine tRNA ligase 1; cytoplasmic; tyrRS; YRS; YTS; tyrosyl--tRNA ligase; tyrosine tRNA ligase 1, cytoplasmic; tyrosyl-tRNA synthetase, cytoplasmic; TYRRS; CMTDIC;
Gene ID	8565
mRNA Refseq	NM_003680
Protein Refseq	NP_003671
MIM	603623
UniProt ID	P54577
Chromosome Location	1p35.1
Pathway	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes,

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	organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;
Function	ATP binding; interleukin-8 receptor binding; ligase activity; nucleotide binding; signal transducer activity; tRNA binding; tyrosine-tRNA ligase activity;

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