

Recombinant Human QARS cell lysate

Cat. No. QARS-2132HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
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. In metazoans, 9 aminoacyl-tRNA synthetases specific for glutamine (Gln), glutamic acid (glu), and 7 other amino acids are associated within a multienzyme complex. Although present in eukaryotes, glutaminyl-tRNA synthetase (QARS) is absent from many prokaryotes, mitochondria, and chloroplasts, in which Gln-tRNA(Gln) is formed by transamidation of the misacylated Glu-tRNA(Gln). Glutaminyl-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	QARS glutaminyl-tRNA synthetase [Homo sapiens]
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Official Symbol	QARS
Synonyms	QARS; glutaminyl-tRNA synthetase; glutamine--tRNA ligase; glutamine tRNA ligase; glutamine-tRNA synthetase; GLNRS; PRO2195;
Gene ID	5859
mRNA Refseq	NM_005051
Protein Refseq	NP_005042
MIM	603727
UniProt ID	P47897
Chromosome Location	3p21.31
Pathway	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	ATP binding; glutamine-tRNA ligase activity; ligase activity; nucleotide binding;