

# Recombinant Human QARS

Catalog No: #GP13030



Package Size: #GP13030-1 100ug

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## Description

Product Name	Recombinant Human QARS
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 576-775 amino acids of human QARS
Target Name	glutaminyl-tRNA synthetase
Other Names	GLNRS; MSCCA; PRO2195
Accession No.	Swissprot:P47897Gene Accession:BC016634
Uniprot	P47897
GeneID	5859;
Storage	-20~-80°C, pH 7.6 PBS

## Background

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. Alternative splicing results in multiple transcript variants.?

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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