

Recombinant Full Length Human QARS1 Protein, C-Flag-tagged

Cat. No. QARS1-1383HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human QARS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	87.6 kDa
AA Sequence	MAALDSLSTLFTSLGLSEQKARETLKNSALSAQLREAATQAQQLGSTIDKATGILLYG

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LASRLRDTRRLS FLVSYIASKKIHTEPQLSAALEYVRSHPLDPIDTVDFERECGVGVI
 VTPEQIEEAVEAAINRHRPQLLVE RYHFNMGLLMGEARAVLKWADGKMIKNEVDMQ
 VLHLLGPKLEADLEKKFKVAKARLEETDRRTAKDVVEN GETADQTLSLMEQLRGEA
 LKFHKPGENYKTPGYVVTPTHMNLKQHLEITGGQVTRFPPEPNGILHIGH AKAIN
 FNFGYAKANNGICFLRFDDTNPEKEEAKFFTAICDMVAWLGYTPYKVITYASDYFDQL
 YAWAVELI RRGLAYVCHQRGEELKGHNTLPSPWRDRPMEESLLLFEAMRKGKFSE
 GEATLRMKLVMEDGKMDPVAYRV KYTPHHRTGDKWCYPTYDYTHCLCDSIEHITH
 SLCTKEFQARRSSYFWLCNALDVYCPVQWEYGRNLH YAVVSKRKILQLVATGAVR
 DWDDPRLFTLTALRRRGFPPEAINNFCAVGVTVTAQTTMEPHLLEACVRDV LNDTA
 PRAMAVLESRLVIITNFPAAKSLDIQVPNFPADETKGFHQVPFAPIVFIERTDFKEEPE
 PGFKRL AWGQPVGLRHTGYVIELQHVVKGPSGCVESLEVTCRRADAGEKPKAFIH
 WVSQPLMCEVRLYERLFQHKH PEDPTEVPGGFLSDLNLASLHVVDAAALVDCSVALA
 KPFDKFQFERLGYSVDPDSHQGKLVFNRTVTLKE
 DPGKVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Aminoacyl-tRNA biosynthesis, Metabolic pathways

Full Length
Full L.

GENE INFORMATION

Gene Name QARS1 glutaminyl-tRNA synthetase 1 [Homo sapiens (human)]

Official Symbol QARS1

Synonyms QARS; GLNRS; MSCCA; PRO2195

Gene ID 5859

mRNA Refseq NM_005051.3

Protein Refseq NP_005042.1

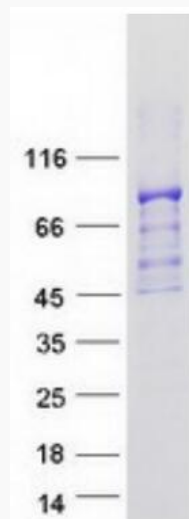
MIM 603727

UniProt ID P47897

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Coomassie blue staining of purified QARS protein.

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