

Human Glutaminyl-tRNA Synthetase (QARS) ELISA Kit | QARS elisa kit

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CATALOG #
AAA331192

REACTIVITY
Human

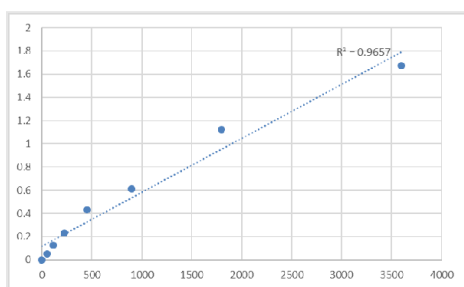
PRODUCT SYNONYMS

Glutaminyl-tRNA Synthetase (QARS); Human Glutaminyl-tRNA Synthetase (QARS) ELISA Kit; QARS; GLNRS; PRO2195; glutamine tRNA ligase; glutamine-tRNA synthetase; QARS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Glutaminyl-tRNA synthetase (QARS) ELISA Kit has high sensitivity and excellent specificity for detection of Human QARS. No significant cross-reactivity or interference between Human QARS and analogues was observed.
Sequence Length	775
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Glutaminyl-tRNA synthetase (QARS) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for QARS elisa kit	Description: This Human Glutaminyl-tRNA synthetase (QARS) ELISA Kit employs a two-site sandwich ELISA to quantitate QARS in samples. An antibody specific for QARS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any QARS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for QARS is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of QARS bound in the initial step. The color development is stopped and the intensity of the color is measured. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4826960
NCBI GeneID	5859
NCBI Accession #	NP_005042
NCBI GenBank Nucleotide #	NP_005042.1
UniProt Accession #	P47897
NCBI Official Full Name	glutamine--tRNA ligase isoform a
NCBI Official Synonym Full Names	glutaminyl-tRNA synthetase
NCBI Official Symbol	QARS
NCBI Official Synonym Symbols	GLNRS; MSCCA; PRO2195
NCBI Protein Information	glutamine--tRNA ligase
UniProt Protein Name	Glutamine--tRNA ligase
UniProt Gene Name	QARS
UniProt Synonym Gene Names	GlnRS
UniProt Entry Name	SYQ_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/glutaminyl-trna-synthetase-qars/331192>