

Human Glutamyl-tRNA (QRSL1) ELISA Kit | QRSL1 elisa kit

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CATALOG #
AAA331182

REACTIVITY
Human

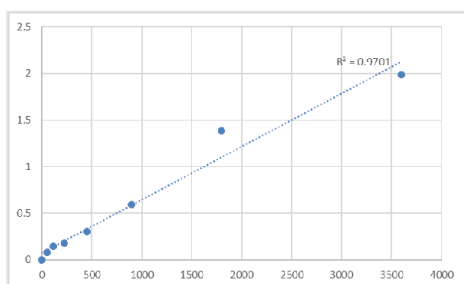
PRODUCT SYNONYMS

Glutamyl-tRNA (QRSL1); Human Glutamyl-tRNA (QRSL1) ELISA Kit; QRSL1; DKFZp564C1278; FLJ10989; FLJ12189; FLJ13447; GatA; QRSL1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Glutamyl-tRNA (QRSL1) ELISA Kit has high sensitivity and excellent specificity for detection of Human QRSL1. No significant cross-reactivity or interference between Human QRSL1 and analogues was observed.
Sequence Length	528
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 Glutamyl-tRNA (QRSL1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for QRSL1 elisa kit	Description: This Human Glutamyl-tRNA (QRSL1) ELISA Kit employs a two-site sandwich ELISA to quantitate QRSL1 in samples. An antibody specific for QRSL1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any QRSL1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for QRSL1 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 QRSL1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: QRSL1 belongs to the amidase family, similar to glutaminyl-tRNA synthetase. Glutaminyl-tRNA synthetase is a class Ic synthetase and shows several similarities with glutamyl-tRNA synthetase concerning structure and catalytic properties. It is an alpha2 dimer. Glutaminyl-tRNA synthetase is a relatively rare synthetase, found in the cytosolic compartment of eukaryotes, in Escherichia coli and a number of other Gram-negative bacteria, and in Deinococcus radiodurans. In contrast, the pathway to Gln-tRNA in mitochondria, Archaea, Gram-positive bacteria, and a number of other lineages is by misacylation with Glu followed by transamidation to correct the aminoacylation to Gln. A stable glutaminyl-adenylate analog, which inhibits GlnRS with a Ki of 1.32 microM, was synthesized and cocrystallized with GlnRS and tRNA2Gln.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	222831590
NCBI GeneID	55278
NCBI Accession #	NP_060762.3
NCBI GenBank Nucleotide #	NP_060762.3
UniProt Accession #	Q9H0R6
NCBI Official Full Name	glutamyl-tRNA(Gln) amidotransferase subunit A, mitochondrial
NCBI Official Synonym Full Names	glutaminyl-tRNA amidotransferase subunit QRSL1
NCBI Official Symbol	QRSL1
NCBI Official Synonym Symbols	GatA
NCBI Protein Information	glutamyl-tRNA(Gln) amidotransferase subunit A, mitochondrial
UniProt Protein Name	Glutamyl-tRNA(Gln) amidotransferase subunit A, mitochondrial
UniProt Gene Name	QRSL1
UniProt Synonym Gene Names	Glu-AdT subunit A
UniProt Entry Name	GATA_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.