

Human Nicotinate-Nucleotide Pyrophosphorylase (QPRT) ELISA Kit | QPRT elisa kit

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CATALOG #
AAA331187

REACTIVITY
Human

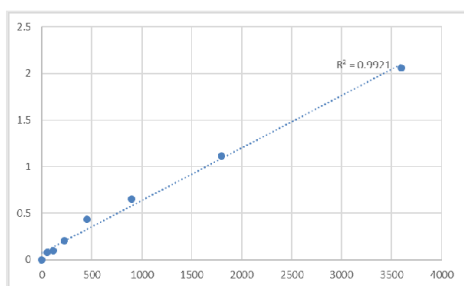
PRODUCT SYNONYMS

Nicotinate-Nucleotide Pyrophosphorylase (QPRT); Human Nicotinate-Nucleotide Pyrophosphorylase (QPRT) ELISA Kit; QPRTase; nicotinate-nucleotide pyrophosphorylase (carboxylating); QPRT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Nicotinate-nucleotide pyrophosphorylase (QPRT) ELISA Kit has high sensitivity and excellent specificity for detection of Human QPRT. No significant cross-reactivity or interference between Human QPRT and analogues was observed.
Sequence Length	297
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 Nicotinate-nucleotide pyrophosphorylase (QPRT) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for QPRT elisa kit	Description: This Human Nicotinate-nucleotide pyrophosphorylase (QPRT) ELISA Kit employs a two-site sandwich ELISA to quantitate QPRT in samples. An antibody specific for QPRT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any QPRT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for QPRT 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 QPRT bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Quinolate is an intermediate in the de novo synthesis pathway of NAD from tryptophan and acts as a potent endogenous excitotoxin through hyperstimulation of N-methyl D-aspartate (NMDA) receptor in the neuron. Elevation of quinolate levels in the human brain has been postulated to be involved in the pathogenesis of neurodegenerative disorders. Mammalian quinolate phosphoribosyltransferase (QPRTase) is a key enzyme in catabolism of quinolate. This gene encodes a key enzyme in catabolism of quinolate, an intermediate in the tryptophan-nicotinamide adenine dinucleotide pathway. Quinolate acts as a most potent endogenous exitotoxin to neurons. Elevation of quinolate levels in the brain has been linked to the pathogenesis of neurodegenerative disorders such as epilepsy, Alzheimer's disease, and Huntington's disease.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	45269149
NCBI GeneID	23475
NCBI Accession #	NP_055113.2
NCBI GenBank Nucleotide #	NP_055113.2
UniProt Accession #	Q15274
NCBI Official Full Name	nicotinate-nucleotide pyrophosphorylase
NCBI Official Synonym Full Names	quinolate phosphoribosyltransferase
NCBI Official Symbol	QPRT
NCBI Official Synonym Symbols	QPRTase; HEL-S-90n
NCBI Protein Information	nicotinate-nucleotide pyrophosphorylase [carboxylating]
UniProt Protein Name	Nicotinate-nucleotide pyrophosphorylase [carboxylating]
UniProt Gene Name	QPRT
UniProt Synonym Gene Names	QAPRTase; QPRTase
UniProt Entry Name	NADC_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.