

Human Glutaminyl-Peptide Cyclotransferase (QPCT) ELISA Kit | QPCT elisa kit

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CATALOG #
AAA331189

REACTIVITY
Human

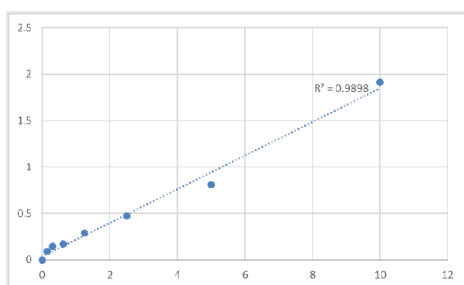
PRODUCT SYNONYMS

Glutaminyl-Peptide Cyclotransferase (QPCT); Human Glutaminyl-Peptide Cyclotransferase (QPCT) ELISA Kit; QPCT; GCT; QC; glutaminyl cyclase; QPCT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Glutaminyl-peptide cyclotransferase (QPCT) ELISA Kit has high sensitivity and excellent specificity for detection of Human QPCT. No significant cross-reactivity or interference between Human QPCT and analogues was observed.
Sequence Length	361
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-peptide cyclotransferase (QPCT) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for QPCT elisa kit	Description: This Human Glutaminyl-peptide cyclotransferase (QPCT) ELISA Kit employs a two-site sandwich ELISA to quantitate QPCT in samples. An antibody specific for QPCT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any QPCT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for QPCT 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 QPCT bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: QPCT encodes human pituitary glutaminyl cyclase, which is responsible for the presence of pyroglutamyl residues in many neuroendocrine peptides. The amino acid sequence of this enzyme is 86% identical to that of bovine glutaminyl cyclase. The deduced 361-amino acid protein has a calculated molecular mass of about 41 kD. It contains an N-terminal signal peptide region, several glycosylation and phosphorylation sites, and 2 cysteine residues conserved between the bovine and human enzymes. QPCT shares 86% overall sequence identity with the bovine homolog. Glutaminyl cyclase expression was upregulated in the cortices of individuals with Alzheimer disease and correlated with the appearance of pE-modified amyloid beta.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6912618
NCBI GeneID	25797
NCBI Accession #	NP_036545.1
NCBI GenBank Nucleotide #	NP_036545.1
UniProt Accession #	Q16769
NCBI Official Full Name	glutaminyl-peptide cyclotransferase
NCBI Official Synonym Full Names	glutaminyl-peptide cyclotransferase
NCBI Official Symbol	QPCT
NCBI Official Synonym Symbols	QC; GCT; sQC
NCBI Protein Information	glutaminyl-peptide cyclotransferase
UniProt Protein Name	Glutaminyl-peptide cyclotransferase
UniProt Gene Name	QPCT
UniProt Synonym Gene Names	QC; sQC; EC
UniProt Entry Name	QPCT_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-peptide-cyclotransferase-qpct/331189>