



Human Glutaminyl-peptide cyclotransferase(QPCT) ELISA kit

Product Code	CSB-EL019135HU
Abbreviation	QPCT
Target Name	glutaminyl-peptide cyclotransferase
Uniprot No.	Q16769
Alias	GCT, QC, glutaminyl cyclase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	QPCT
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human QPCT ELISA Kit was designed for the quantitative measurement of Human QPCT protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	This gene 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.
Product Precision	<p>Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess.</p>



Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human QPCT in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	92
	Range %	87-100
1:2	Average %	103
	Range %	99-105
1:4	Average %	93
	Range %	87-97
1:8	Average %	91
	Range %	89-98

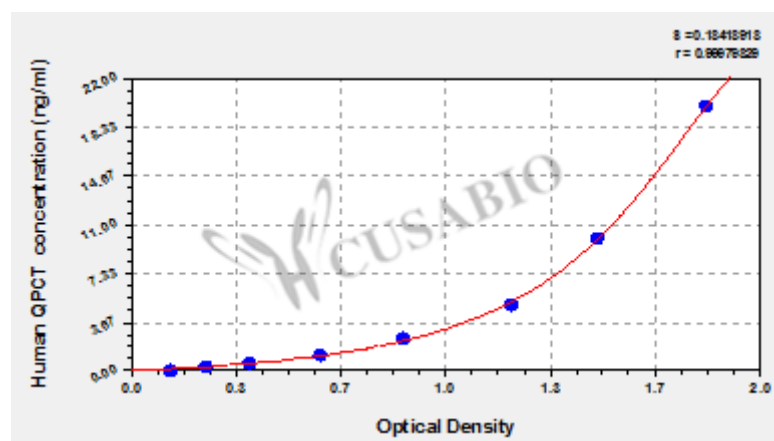
Recovery

The recovery of human QPCT spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	95	92-98
EDTA plasma (n=4)	90	86-94

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
20	1.846	1.775	1.811	1.676
10	1.469	1.466	1.468	1.333
5	1.156	1.244	1.200	1.065
2.5	0.878	0.854	0.866	0.731
1.25	0.583	0.623	0.603	0.468
0.625	0.374	0.388	0.381	0.246
0.312	0.242	0.251	0.247	0.112
0	0.134	0.135	0.135	?

Msds

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