

ARG82748 Human QPCT ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82748-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82748-002	Standard	2 X 10 ng/vial	4°C
ARG82748-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82748-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82748-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82748-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82748-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82748-008	25X Wash buffer	20 ml	4°C
ARG82748-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82748-010	STOP solution	10 ml (Ready to use)	4°C
ARG82748-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82748 Human QPCT ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human QPCT in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	QPCT
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.3% Inter-Assay CV: 6.3%

Alternate Names EC 2.3.2.5; Glutaminyl cyclase; Glutamyl cyclase; EC; QC; Glutaminyl-peptide cyclotransferase; GCT; sQC; Glutaminyl-tRNA cyclotransferase

Application Instructions

Assay Time ~ 5 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol QPCT

Gene Full Name glutaminyl-peptide cyclotransferase

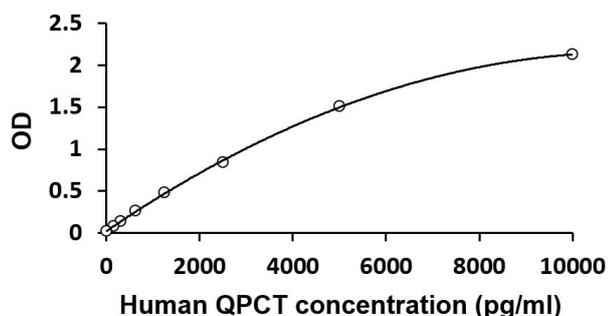
Background This gene encodes human pituitary glutaminyl cyclase, which is responsible for the presence of pyroglutamyl residues in many neuroendocrine peptides. The amino acid sequence of this enzyme is 86% identical to that of bovine glutaminyl cyclase. [provided by RefSeq, Jul 2008]

Function Responsible for the biosynthesis of pyroglutamyl peptides. Has a bias against acidic and tryptophan residues adjacent to the N-terminal glutaminyl residue and a lack of importance of chain length after the second residue. Also catalyzes N-terminal pyroglutamate formation. In vitro, catalyzes pyroglutamate formation of N-terminally truncated form of APP amyloid-beta peptides [Glu-3]-beta-amyloid. May be involved in the N-terminal pyroglutamate formation of several amyloid-related plaque-forming peptides. [UniProt]

Highlight Related products:
[QPCT antibodies](#); [QPCT ELISA Kits](#);
New ELISA data calculation tool:
[Simplify the ELISA analysis by GainData](#)

Cellular Localization Secreted. [UniProt]

Images



ARG82748 Human QPCT ELISA Kit standard curve image

ARG82748 Human QPCT ELISA Kit results of a typical standard run with optical density reading at 450 nm.