

ARG82714 Human PZP / Pregnancy zone protein ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82714-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82714-002	Standard	2 X 10 ng/vial	4°C
ARG82714-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82714-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82714-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82714-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82714-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82714-008	25X Wash buffer	20 ml	4°C
ARG82714-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82714-010	STOP solution	10 ml (Ready to use)	4°C
ARG82714-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82714 Human PZP / Pregnancy zone protein ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human PZP / Pregnancy zone protein in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	PZP / Pregnancy zone protein
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: 5.6%

Inter-Assay CV: 6.4%

Alternate Names CPAMD6

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

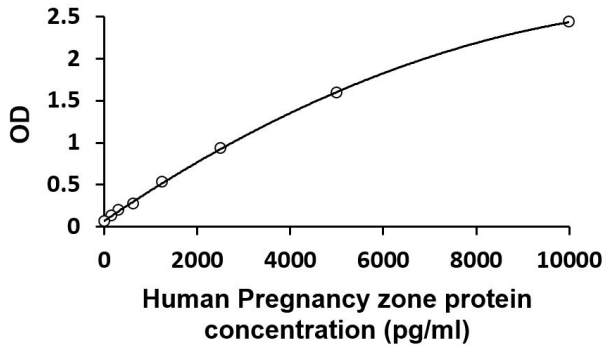
Gene Symbol PZP

Gene Full Name PZP alpha-2-macroglobulin like

Background The protein encoded by this gene is highly expressed in late-pregnancy serum and is similar in structure to alpha-2-macroglobulin. The encoded protein, which acts as a homotetramer, inhibits the activity of all four classes of proteinases. This protein contains cleavage sites for several proteinases. Upon binding of a proteinase, the conformation of this protein changes to trap the proteinase, limiting its activity. This protein appears to be elevated in the sera of presymptomatic Alzheimer's disease patients. [provided by RefSeq, Dec 2016]

Function Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase. [UniProt]

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ARG82714 Human PZP / Pregnancy zone protein ELISA Kit standard curve image

ARG82714 Human PZP / Pregnancy zone protein ELISA Kit results of a typical standard run with optical density reading at 450 nm.