

ARG82274 Porcine Insulin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82274-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82274-002	Standard (Lyophilized)	2 X 0.5 pmol/vial	4°C
ARG82274-003	Standard/Sample diluent	20 ml	4°C
ARG82274-004	Antibody conjugate concentrate	400 µl	4°C
ARG82274-005	Antibody diluent buffer	16 ml	4°C
ARG82274-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG82274-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG82274-008	20X Wash buffer	50 ml	4°C
ARG82274-009	TMB substrate	12 ml	4°C (Protect from light)
ARG82274-010	STOP solution	12 ml	4°C
ARG82274-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82274 Porcine Insulin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Porcine Insulin in serum, plasma and cell culture supernatants.
Tested Reactivity	Pig
Tested Application	ELISA
Specificity	Cross-react with Human and Dog Insulin. Not react with Human C-Peptide and IGF-I.
Target Name	Insulin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pmol/L
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	15.6 - 1000 pmol/L
Sample Volume	100 µl

Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	IDDM; IDDM2; IDDM1; ILPR; MODY10; Insulin; IRDN

Application Instructions

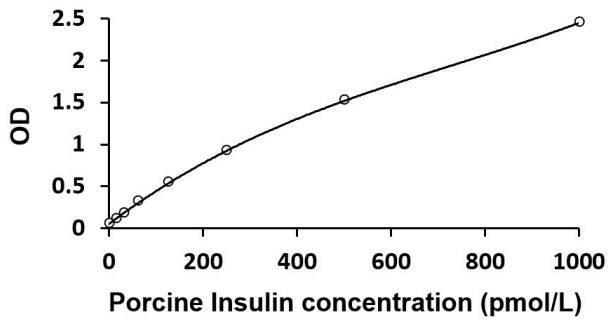
Assay Time	~ 3.5 hours
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Properties

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	INS
Gene Full Name	insulin
Background	After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into three peptides: the B chain and A chain peptides, which are covalently linked via two disulfide bonds to form insulin, and C-peptide. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. A multitude of mutant alleles with phenotypic effects have been identified. There is a read-through gene, INS-IGF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]
Function	Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver. [UniProt]
Highlight	Related products: Insulin antibodies ; Insulin ELISA Kits ; Insulin Duos / Panels ; Insulin recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Cellular Localization	Secreted. [UniProt]



ARG82274 Porcine Insulin ELISA Kit standard curve image

ARG82274 Porcine Insulin ELISA Kit results of a typical standard run with optical density reading at 450 nm.