ARG81295
Mouse/Rat Insulin (Ultra sensitive) ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG81295 Mouse/Rat Insulin (Ultra sensitive) ELISA Kit is an ultra sensitive Enzyme Immunoassay kit for the quantification of Mouse/Rat Insulin in serum, plasma and cell culture supernatants.
Tested Reactivity	Ms, Rat
Tested Application	ELISA
Specificity	Mouse / Rat Insulin: 100% Hamster Insulin: Detected Rat C-peptide, Rat pancreatic polypeptide, Porcine glucagon, Human Insulin like growth factor-I and II: Not Detected
Target Name	Insulin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	50 pg/ml (5 µl sample volume); 5 pg/ml (100 µl sample volume)
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	0.1 - 6.4 ng/ml
Sample Volume	5 µl or 100 µl
Alternate Names	IDDM; IDDM2; IDDM1; ILPR; MODY10; Insulin; IRDN; Insulin-2; InsII; Ins-2

Application Instructions

Assay Time	~ 3 hours

Properties

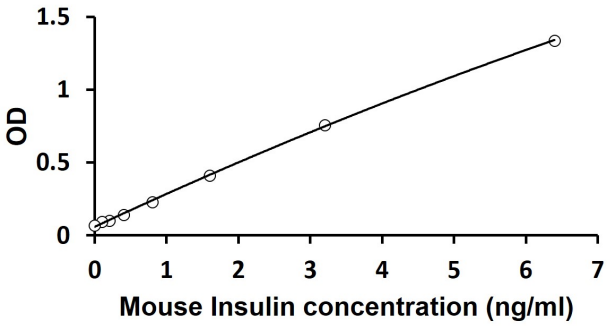
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	Ins2
Gene Full Name	insulin II
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

Images



ARG81295 Mouse Insulin (Ultra sensitive) ELISA Kit standard curve image

ARG81295 Mouse Insulin (Ultra sensitive) ELISA Kit results of a typical standard run with optical density reading at 450 - 630 nm.