

**ARG83763**  
**Mouse / Rat Insulin ELISA Kit**Package: 96 wells  
Store at: 4°C**Summary**

Product Description	ARG83763 Mouse / Rat Insulin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse, Rat Insulin in serum, plasma and cell culture supernatants.
Tested Reactivity	Ms, Rat
Tested Application	ELISA
Target Name	Insulin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	15.6-1000 pg/ml
Sample Volume	100 µL
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 4°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](#)

## Research Area

Cell Biology and Cellular Response kit; Metabolism kit; Neuroscience kit; Signaling Transduction kit