

Insulin (INS) ELISA Kit

- Citations>84
- Cumulative IF>305

Insulin is a protein hormone secreted by islet beta cells in the pancreas. Insulin is involved in regulating glucose metabolism and controlling blood sugar balance. It can be used to treat diabetes mellitus. The main physiological function of insulin is to regulate the metabolic process. Glucose metabolism: promoting the uptake and utilization of glucose by tissue cells, promoting glycogen synthesis, inhibiting gluconeogenesis and lowering blood sugar; Fat metabolism: promoting fatty acid synthesis and fat storage, reducing fat decomposition; Protein: accelerating the entry of amino acids into cells, promoting all links of protein synthesis to increase protein Quality synthesis. Insulin is the only hormone that lowers blood sugar and promotes the synthesis of glycogen, fat and protein. Therefore, the detection of insulin content is particularly important in metabolic diseases caused by abnormal insulin in vivo.

1.Cloud-Clone INS related products

Target	Product No.	Product Name	Species
INS	CEA448Hu	Human ELISA Kit for Insulin (INS)	Human
	CEA448Mu	Mouse ELISA Kit for Insulin (INS)	Mouse
	CEA448Ra	Rat ELISA Kit for Insulin (INS)	Rat
	CEA448Po	Porcine ELISA Kit for Insulin (INS)	Porcine
	CEA448Bo	Bovine ELISA Kit for Insulin (INS)	Bovine
	CEA448Rb	Rabbit ELISA Kit for Insulin (INS)	Rabbit
	CEA448Gu	Guinea pig ELISA Kit for Insulin (INS)	Guinea pig
	CEA448Cp	Goat ELISA Kit for Insulin (INS)	Goat
	CEA448Si	Simian ELISA Kit for Insulin (INS)	Simian

2.Excellent Citations of INS related products (Excerpt)

Product No.	Species	Journal	IF	Pubmed ID	Institute
CEA448Si	Simian	Nature Medicine	32.621	29291351	Medical Science Research Center, Zhongnan Hospital of Wuhan University, Wuhan, China.
CEA448Ra	Rat	EMBO Molecular Medicine	9.249	28336389	Department of Obstetrics and Gynecology, Key Laboratory and Unit of Infertility in Chinese Medicine, First Affiliated Hospital, Heilongjiang University of Chinese Medicine, 150040 Harbin, China.
CEA448Mu	Mouse	Diabetologia	6.08	28280902	State Key Laboratory of Natural Medicines, China Pharmaceutical University, 24 Tongjia Lane, Nanjing, 210009, China.
SEA448Po	Pig	Biomaterials Science	5.831	30672923	School of Pharmacy, Nanchang University, 461 Bayi Road, Donghu District, Nanchang, 330006, China. zhonghj@ncu.edu.cn lds0823@ncu.edu.cn.
CEA448Mu	Mouse	Journal of Molecular and Cellular Cardiology	5.68	27638193	Department of Endocrinology, Affiliated Hospital of Weifang Medical University, Weifang, China.
CEA448Mu	Mouse	Cellular Physiology and Biochemistry	5.5	30308480	Department of Clinical Medical College, Nanjing University of Chinese Medicine, Nanjing, China.

CEA448Mu	Mouse	Biochimica et biophysica acta. Molecular basis of disease	5.108	30742994	Department of Physiology, Nanjing University of Chinese Medicine Hanlin College, Taizhou, Jiangsu 225300, China
CEA448Mu	Mouse	Cellular Physiology and Biochemistry	5.104	28595178	Department of Endocrinology, Weifang, China.
CEA448Ra	Rat	Nanomedicine	4.727	28635562	Department of Biochemistry, Faculty of Pharmacy, Mansoura University, 35516, Egypt.
CEA448Mu	Mouse	Journal of Endocrinology	4.706	28490443	Department of Systems Biology Physiology Unit, Universidad de Alcalá, Madrid, Spain.

● Flox DMSO ● Flox 5Z-7-ox ● HepKO DMSO ● HepKO 5Z-7-ox

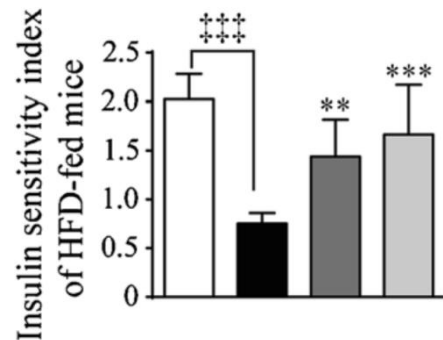
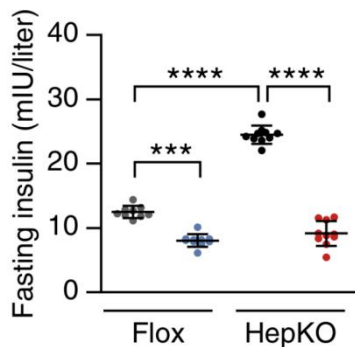


Figure. Fasting concentrations of blood glucose, fasting serum insulin and the HOMA-IR indexes (Yan Xiao Ji, 2018)
(Product No.: CEA448Si Sample type: Serum)

Figure. Insulin in the blood were determined using ELISA kits. (Na Xiao, 2017)
(Product No.: CEA448Mu Sample type: Serum)

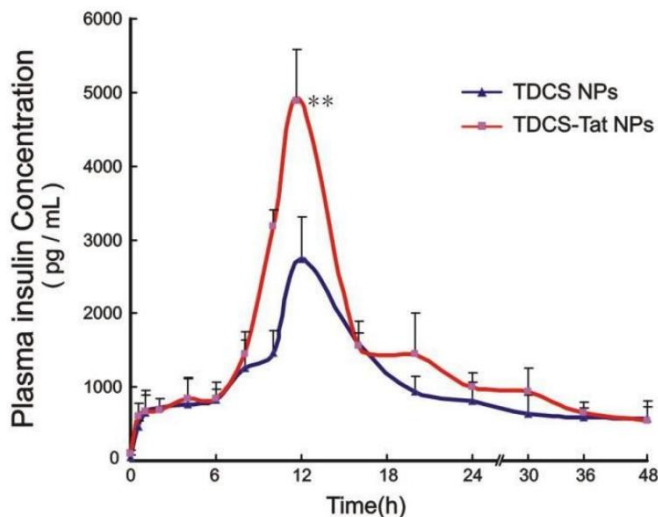


Figure. Area under the curve of insulin in mini-pigs after oral administration (10 IU/kg) of insulin-loaded TDCS NPs and insulin-loaded TDCS-Tat NPs. (Haijun Zhong, 2019)
(Product No.: CEA448Po Sample type: Plasma)

Table 1 Biometric and blood parameters of mice in the studied groups

Group	NC	NC-Irisin	HFD	HFD-Irisin
Body weight (g)	26.5 ± 1.3	26.8 ± 1.3 [#]	37.3 ± 2.1 [*]	30.6 ± 2.6 [#]
Visceral fat/weight (10 ⁻³)	17.1 ± 3.6	16.4 ± 3.2	44.0 ± 6.9 [*]	33.2 ± 7.1 [#]
SBP (mm Hg)	104.3 ± 5.4	102.5 ± 7.2	107.1 ± 8	106.3 ± 8.5
DBP (mm Hg)	74.7 ± 5.8	73.1 ± 4.3	77.9 ± 5.3	76.0 ± 4.8
Glucose (mg/dl)	91.3 ± 6.2	92.8 ± 5.5 [#]	105.7 ± 6.1 [*]	97.0 ± 4.8 [#]
Insulin (ng/ml)	0.89 ± 0.09	0.88 ± 0.11 [#]	1.81 ± 0.24 [*]	1.48 ± 0.14 [#]
TG (mg/dl)	67.13 ± 4.39	64.04 ± 4.47 [#]	127.76 ± 13.0	95.79 ± 12.92 [#]

Figure. The level of insulin in the plasma was measured using a commercially available ELISA Kit. (Xiaodong Sun, 2016)
(Product No.: CEA448Mu Sample type: Serum)

3. Citation statistics of INS related products (Excerpt)

Title	Journal	Product No.
Nicotinamide-functionalized multiwalled carbon nanotubes increase insulin production	International Journal of	CEA448Hu

in pancreatic beta cells via MIF pathway	Nanomedicine	
Coexistence of non-alcoholic fatty liver disease with elevated alanine aminotransferase is associated with insulin resistance in young Han males	Endocrine	CEA448Hu
High plasma glucagon levels correlate with waist-to-hip ratio, supra-iliac skinfold thickness, deep subcutaneous abdominal and intra-peritoneal adipose tissue	Journal of Diabetes Research	CEA448Hu
High circulating plasma dipeptidyl peptidase-4 levels in non-obese Asian Indians with type 2 diabetes correlate with fasting insulin and LDL-C levels, triceps skinfolds, total intra-abdominal adipose tissue volume and presence of diabetes: a case-control study	BMJ Open	CEA448Hu
Effect of the "protein diet" and bone tissue	Nutricion Hospitalaria	CEA448Hu
Ginsenoside Rg5 attenuates hepatic glucagon response via suppression of succinate-associated HIF-1 α induction in HFD-fed mice	Diabetologia	CEA448Mu
Irisin improves perivascular adipose tissue dysfunction via regulation of the heme oxygenase-1/adiponectin axis in diet-induced obese mice	Journal of Molecular and Cellular Cardiology	CEA448Mu
Irisin Regulates Heme Oxygenase-1/ Adiponectin Axis in Perivascular Adipose Tissue and Improves Endothelial Dysfunction in Diet-Induced Obese Mice	Cellular Physiology and Biochemistry	CEA448Mu
Peripheral insulin resistance in ILK-depleted mice by reduction of GLUT4 expression.	Journal of Endocrinology	CEA448Mu
Effects of Bariatric Surgery on Change of Brown Adipocyte Tissue and Energy Metabolism in Obese Mice	Obesity Surgery	CEA448Mu
Baicalin against obesity and insulin resistance through activation of AKT/AS160/GLUT4 pathway	Molecular and Cellular Endocrinology	CEA448Mu
Synthesis and anti-diabetic activity of new N,N-dimethylphenylenediamine-derivatized nitrilotriacetic acid vanadyl complexes.	Journal of Inorganic Biochemistry	CEA448Mu
Red paprika (<i>Capsicum annum</i> L.) and its main carotenoid capsanthin ameliorate impaired lipid metabolism in the liver and adipose tissue of high-fat diet-induced obese mice	Journal of Functional Foods	CEA448Mu
Subcutaneous liraglutide ameliorates methylglyoxal-induced Alzheimer-like tau pathology and cognitive impairment by modulating tau hyperphosphorylation and glycogen synthase kinase-3 β .	American Journal of Translational Research	CEA448Mu
Activated Galanin receptor 2 attenuates insulin resistance in skeletal muscle of obese mice	Peptides	CEA448Mu
Subcutaneous administration of liraglutide ameliorates learning and memory impairment by modulating tau hyperphosphorylation via the glycogen synthase kinase-3 β pathway in an amyloid β protein induced alzheimer disease mouse model	European Journal of Pharmacology	CEA448Mu
Impaired neural stem/progenitor cell proliferation in Streptozotocin-induced and spontaneous diabetic mice	Neuroscience Research	CEA448Mu
Insulin restores UCP3 activity and decreases energy surfeit to alleviate lipotoxicity in skeletal muscle	International Journal of Molecular Medicine	CEA448Mu
C1q/TNF-related protein 9 improves the anti-contractile effects of perivascular adipose tissue via the AMPK-eNOS pathway in diet-induced obese mice	Clinical and experimental pharmacology and physiology	CEA448Mu
Metformin Ameliorates Uterine Defects in a Rat Model of Polycystic Ovary Syndrome.	EMBO Molecular Medicine	CEA448Ra
Nanoformulated natural therapeutics for management of streptozotocin-induced diabetes: potential use of curcumin nanoformulation	Nanomedicine	CEA448Ra
Modulation of gut microbiota contributes to curcumin-mediated attenuation of hepatic steatosis in rats	Biochimica et biophysica acta-general subjects	CEA448Ra
Molecular characterization of insulin resistance and glycolytic metabolism in the rat uterus	Scientific Reports	CEA448Ra
The anti-hyperglycemic efficacy of a lipid-lowering drug Daming capsule and the underlying signaling mechanisms in a rat model of diabetes mellitus.	Scientific Reports	CEA448Ra
Adiponectin protects the rats liver against chronic intermittent hypoxia induced injury through AMP-activated protein kinase pathway.	Scientific Reports	CEA448Ra
Regulation of insulin receptor phosphorylation in the brains of prenatally stressed rats: New insight into the benefits of antidepressant drug treatment	European Neuropsychopharmacology	CEA448Ra

Rosiglitazone Inhibits Expression and Secretion of PEDF in Adipose Tissue and Liver of Male SD Rats Via a PPAR- γ Independent Mechanism	Endocrinology.	CEA448Ra
The Effects of Duodenojejunal Omega Switch in Combination with High-Fat Diet and Control Diet on Incretins, Body Weight, and Glucose Tolerance in Sprague-Dawley Rats.	Obesity Surgery	CEA448Ra
Nypa fruticans Wurmb. Vinegar's Aqueous Extract Stimulates Insulin Secretion and Exerts Hepatoprotective Effect on STZ-Induced Diabetic Rats	Nutrients	CEA448Ra
Effect of Sleeve Gastrectomy Plus Side-to-Side Jejunoileal Anastomosis for Type 2 Diabetes Control in an Obese Rat Model	Obes Surg	CEA448Ra
Central injection of GALR1 agonist M617 attenuates diabetic rat skeletal muscle insulin resistance through the Akt/AS160/GLUT4 pathway	Mechanisms of Ageing and Development	CEA448Ra
The dynamic three-dimensional culture of islet-like clusters in decellularized liver scaffolds	Cell and Tissue Research	CEA448Ra
Structural and functional abnormalities of hepatic tissues in male Wistar rats fed hyperwhey and super amino anabolic protein	Nutrition	CEA448Ra
Vitamin D3 intake as regulator of insulin degrading enzyme and insulin receptor phosphorylation in diabetic rats	Biomedicine & Pharmacotherapy	CEA448Ra
Changes in pancreatic histology, insulin secretion and oxidative status in diabetic rats following treatment with Ficus deltoidea and vitexin	BMC Complementary and Alternative Medicine	CEA448Ra
Chronic high-protein diet induces oxidative stress and alters the salivary gland function in rats	Archives of Oral Biology	CEA448Ra
Beneficial effects of Heqi san on rat model of polycystic ovary syndrome through the PI3K/AKT pathway	DARU-Journal of Pharmaceutical Sciences	CEA448Ra
Activation of cardiac renin-angiotensin system and plasminogen activator inhibitor-1 gene expressions in oral contraceptive-induced cardiometabolic disorder	Archives of Physiology and Biochemistry	CEA448Ra
Berberis integerrima ameliorates insulin resistance in high-fructose-fed insulin-resistant rats	Iranian Journal of Basic Medical Sciences	CEA448Ra
Antihyperglycemic Effect of Rosa Damascena is Mediated by PPAR. γ Gene Expression in Animal Model of Insulin Resistance	Iranian Journal of Pharmaceutical Research	CEA448Ra
Zataria multiflora increases insulin sensitivity and PPAR γ gene expression in high fructose fed insulin resistant rats	Iran J Basic Med Sci	CEA448Ra
Nicotinamide-functionalized multiwalled carbon nanotubes increase insulin production in pancreatic beta cells via MIF pathway	International Journal of Nanomedicine	CEA448Hu
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(For more information, please visit: www.cloud-clone.com/www.uscnk.cn)

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