Leptin (human), ELISA kit

The Leptin (human), ELISA kit is a colorimetric immunometric enzyme immunoassay kit

The Leptin ELISA kit is a colorimetric immunometric enzyme immunoassay kit with results in 3 hours.

The adipokine leptin is a hormone secreted predominantly by adipose tissue that signals through leptin receptors in the hypothalamus to decrease appetite and increase energy expenditure. Binding of leptin to the long-form of the leptin receptor in the hypothalamus reduces neuropeptide Y (NPY) and agouti-related protein (AgRP) activity, while stimulating anorexigenic pro-opiomelanocortin (POMC) neuron activity to reduce appetite. In peripheral tissues, leptin antagonizes insulin signaling, increases fatty acid oxidation, decreases insulin production in pancreatic beta cells, and promotes fertility. Its expression in adipocytes can be regulated in a paracrine fashion by other adipokines such as IL-6 (stimulation) and TNF-α (inhibition). Leptin deficient mice display severe insulin resistance, obesity, and decreased fertility, all of which are reversible by administration of exogenous leptin. In contrast, elevated circulating levels of leptin are associated with increased obesity, indicative of an acclimated state of leptin resistance which is not well understood.

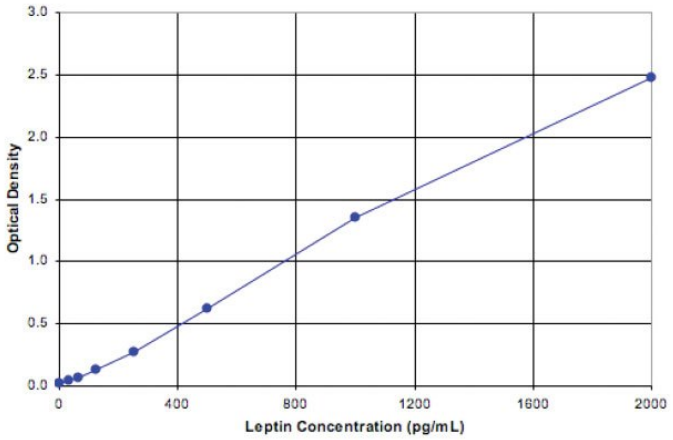
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ADI-900-028A	96 wells

Manuals, SDS & CofA View Online »

- Sensitive - accurately quantify as little as 23.4 pg/mL
- Save time - obtain results from 39 samples in duplicate in just 3 hours!
- Convenient- store all reagents at 4°C
- Pre-coated plates and ready-to-use reagents save you time


3.0
2.5
2.0
1.5
1.0
0.5
0.0
Optical Density
0
400
800
1200
1600
2000
Leptin Concentration (pg/mL)

Handling & Storage

Long Term Storage	+4°C
Shipping	Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	OB gene product
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of human leptin in culture supernatants, plasma, and serum.
Assay Time	3 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	Microtiter plate, Standard, Antibody, Conjugate, Assay buffer 17, TMB Substrate, Stop solution 2, Wash buffer concentrate
Sensitivity	23.4 pg/ml (range 31.3 – 2,000 pg/ml)
Species Reactivity	Human
Technical Info / Product Notes	**Cited samples:**Cytokine ELISAs Cited Samples
UniProt ID	P41159
Wavelength	450 nm

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