

Technical Information

Leptin, Mouse/Rat

Cat. No.:	E06
Tests:	96
Method:	ELISA
Range:	25 - 1600 pg/ml
Sensitivity:	10 pg/ml
Incubation time:	3.5 hours
Calibration:	WHO NIBSC 97/626 (39, 40)
Sample volume:	100 µl (rat: after 1:5 – 1:10 dilution; mouse: after 1:20 dilution)
Sample type:	Serum, plasma, cell culture
Sample preparation:	Serum samples could be stored at -20 °C. Avoid repeated freezing/thawing of specimens.
Species:	Mouse, rat

Intended use:

This mouse/rat-Leptin EIA provides a tool for investigation of leptin effects on energy metabolism. Beside energy metabolism leptin influences several further endocrine axes.

In male mice leptin reduces the effect of starvation on testosterone, ACTH and corticosterone. In female mice leptin delays starvation induced ovulation.

Leptin, the product of the ob gene, is a recently discovered proteohormone. It is almost exclusively produced by differentiated adipocytes and is thought to play a key role in the regulation of body weight. Leptin has an influence on the central nervous system, mainly on the hypothalamus, by suppressing food ingestion and increasing energy consumption.

Beside its influence on food intake, leptin has been shown to have a strong effect on reproduction and a number of metabolic and endocrine axes. As leptin is of great importance for reproductive functions, infertility may be due to inadequate leptin production. The most important variable determining the circulating leptin concentration is the body fat mass as leptin level and fat mass increase exponentially.

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