



Product Datasheet

Product Name	Leptin Human Recombinant, His Tag
Cata No	CB500189
Source	<i>Escherichia Coli.</i>
Synonyms	OB Protein, Obesity Protein, OBS, Obesity factor.

Description

Leptin is a protein hormone with important effects in regulating body weight, metabolism and reproductive function. The protein is approximately~16 kDa in mass and encoded by the obese (ob)gene. leptin is expressed predominantly by adipocytes, which fits with the idea that body weight is sensed as the total mass of fat in the body. Smaller amounts of leptin are also secreted by cells in the epithelium of the stomach and in the placenta. Leptin receptors are highly expressed in areas of the hypothalamus known to be important in regulating body weight, as well as in T lymphocytes and vascular endothelial cells.

Leptin Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing amino acids 48-167 and having a total molecular mass of 19 kDa including the 4 kDa His tag.

The Leptin is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White Lyophilized (freeze-dried)

powder.

Purity

Greater than 90.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The protein was lyophilized from a concentrated (1mg/ml) solution with 1X PBS, 0.1% SDS and 1mM DTT.

Stability

Lyophilized Leptin although stable at room temperature, should be stored desiccated below 0°C. Reconstituted Leptin is best stored refrigerated at 4°C.

Please avoid freeze-thaw cycles.

Application

- 1. Positive control for Western blot.
- 2. Antibody production.
- 3. Protein assay.