



Product Datasheet

Product Name	Leptin Mouse Recombinant
Cata No	CB500253
Source	<i>Escherichia Coli.</i>
Synonyms	OB Protein, Obesity Protein, OBS, Obesity factor.

Description

A 16-kDa peptide hormone secreted from white adipocytes and implicated in the regulation of food intake and energy balance. Leptin provides the key afferent signal from fat cells in the feedback system that controls body fat stores.

Leptin Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 147 amino acids and having a molecular mass of 16.2 kDa.

The Leptin is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

Biological activity of Mouse Leptin is performed in two different mouse obesity models, ob/ob and NZO. Both strains of mice were treated via intraperitoneal injection once daily at a dose of 5ug Leptin/gram body weight for a period of 14 days. Significant effects on body weight , food consumption, and

plasma glucose levels were observed to saline-treated controls.

Purity

Greater than 95.0% as determined by:

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

Formulation

The mouse Leptin was lyophilized from a concentrated (1mg/ml) solution containing 0.1% TFA.

Stability

The mouse Leptin was lyophilized from a concentrated (1mg/ml) solution containing 0.1% TFA.

Sequence

MVPIQKVQDD TKTLIKTIVT RINDISHTQS
VSAKQRVTGL DFIPGLHPIL SLSKMDQTLA
VYQQVLTSLP SQNVLQIAND LENLRDLLHL
LAFSKSCSLP QTSGSLQKPES LDGVLEASLY
STEVVALSRL QGSLQDILQQ LDVSPEC.