

Recombinant Chicken Leptin

Cat. No. LEP-07C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Chicken Leptin produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 145 amino acids and having a molecular mass of 16 kDa. The Leptin is purified by proprietary chromatographic techniques.
Species	Chicken
Source	E.coli
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.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Cys-Gln.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized from a concentrated (1 mg/ml) solution with 0.0045 mM NaHCO ₃ .
Solubility	It is recommended to reconstitute the lyophilized Leptin in sterile 18 MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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Biological Activity	Biological active as evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. Its activity is however 5-10 fold lower as compared to mammalian leptins.
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Protein content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.19 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using calibrated solution of Leptin Chicken as a Reference Standard.
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GENE INFORMATION

Gene Name	LEP leptin [Gallus gallus]
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Synonyms	LEP; Leptin; lep
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Gene ID	373955
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