

Recombinant Chicken Leptin

Cat. No. LEP-08C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Chicken Leptin Binding Domain produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 208 amino acids and having a molecular mass of 24.5 kDa. The Leptin Binding Domain is purified by proprietary chromatographic techniques.
Species	Chicken
Source	E.coli
Description	Leptin (Greek leptos meaning thin) is a 16 kDa protein hormone that plays a key role in regulating energy intake and energy expenditure, including appetite and metabolism. It is one of the most important adipose derived hormones.
Amino Acid Sequence	The sequence of the first six N-terminal amino acids was determined and was found to be Ala-Ile-Asp-Val-Asn-Ile
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 98.0% 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	The lyophilized Leptin Binding Domain is very soluble in water and most aqueous

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buffers below and above the isoelectric point.

Biological Activity

Biological Activity is evidenced by high affinity binding of mammalian leptins at 1:1 molar ratio.

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 2.45 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 a calibrated solution of Leptin Binding Domain as a Reference Standard.

Storage

Lyophilized Leptin Binding Domain although stable at room temperature, should be stored desiccated below 0°C. Reconstituted Leptin is best stored refrigerated at 4°C. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

LEP leptin [Gallus gallus]

Synonyms

OB Protein; Obesity Protein; OBS; Obesity factor; LEP; Lep; leptin; ob; obese; obesity factor; leptin (murine obesity homolog); leptin (obesity homolog, mouse); FLJ94114; Obese protein

Gene ID

373955

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