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**Product Data Sheet**

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Product Name: Leptin Salamander  
Cat. No.: GP20699  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	OB Protein; Obesity Protein; OBS; Obesity factor; Leptin.		
Amino Acid Sequence	The sequence of the ten N-terminal amino acids was determined and was found to be Ala-Ile-Met-Val-Asp-Gln-Leu-Arg-Met-Asp.		
Solubility	It is recommended to reconstitute the lyophilized Salamander Leptin in sterile 0.4% NaHCO <sub>3</sub> pH-9 not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The Salamander Leptin was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO <sub>3</sub> .		

**Introduction**

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.

**Biological Activity**

By inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. Its activity in that test is similar to that of mouse leptin (see Salomon et al (2006) Protein Expression and Purification 47, 128-136).

**Stability**

Lyophilized Salamander Leptin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Leptin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Background

Leptin Salamander Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a molecular mass of 16kDa. The Salamander Leptin is purified by proprietary chromatographic techniques.

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