

Leptin Salamander

Description: 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.

Catalog #: CYPs-711

For research use only.

Synonyms: OB Protein, Obesity Protein, OBS, Obesity factor, Leptin.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

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.

Purity: Greater than 99.0% as determined by: (a) Analysis by Gel-Filtration. (b) Analysis by SDS-PAGE.

Formulation:

The Salamander Leptin was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO₃.

Stability:

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

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Salamander Leptin in sterile 0.4% NaHCO₃ pH-9 not less than 100

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, 128136).

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