



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-471283
Lot Number: SAMPLE
Product Name: Leptin (human), (recombinant)
CAS Number: 177404-21-6
Molecular Formula:
Molecular Weight: ~16000

Test

Result

Activity

Biological Activity is evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor

Appearance

Sterile Filtered White lyophilized (freeze-dried) powder

Formulation

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

Purity

> 95.0% (a) by SEC-HPLC; (b) by SDS-PAGE

Solubility

The lyophilized Leptin is very soluble in water and most aqueous buffers below and above the isoelectric point

Amino Acid Analysis

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln

Protein Content

Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 0.878 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 as a Reference Standard.

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