9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Leptin Horse

Leptin Horse Recombinant
GRF0203

Product Overview

Name	Leptin Horse
Description	
Leptin Horse Recombinant	
Accession (Primary)	Q9TU09
Synonyms	
OB Protein, Obesity Protein, OBS, Obesity factor.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO3.	
Stability	
Lyophilized 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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln.	
Biological Activity	
Biological active as evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor.	
Solubility	
It is recommended to reconstitute the lyophilized Leptin in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

then be further diluted to other aqueous solutions.

Protein content

Protein quantitation was carried out by two independent methods 1. UV spectroscopy at 280 nm using the absorbency value of 0.1 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 Horse as a Reference Standard.

Precautions

Leptin Horse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9TU09)