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

Leptin Human, PEG

Leptin Human Recombinant, Pegylated
GRF0206

Product Overview

Name	Leptin Human, PEG
Description	
Leptin Human Recombinant, Pegylated	
Accession (Primary)	P41159
Synonyms	
OB Protein, Obesity Protein, OBS, Obesity factor.	
Introduction	
Leptin takes an important part in the regulation of energy balance and body weight control.After entering the circulation, Leptin binds LEPRwhich results in the activation of several major signalling pathways. In the hypothalamus Leptin acts as an appetite-regulating factor that induces a decrease in food intake and an increase in energy consumption and also regulates bone mass and secretion of hypothalamo-pituitary-adrenal hormones. In the periphery, increases basal metabolism, regulates pancreatic beta-cell function and insulin secretion and affects innate and adaptive immunity.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a concentrated (0.65mg/ml) solution with 0.003mM NaHCO3 Having 35-40% protein.	
Stability	
Lyophilized Pegylated Leptin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Pegylated Leptin N82K 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 99.0% as determined by: (a) Gel filtration analysis. (b) Analysis by SDS-PAGE.	
Biological Activity	
Pegylated Leptin Human is capable of stimulatng proliferation of BAF/3 cells stably transfected with the long form of	

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

human leptin receptor. Pegylated Leptin in vitro activity is 5-7 fold lower than the non-pegylated recombinant human leptin but in vivo Pegylated Leptin has profound weight reducing effect (as compared to the non-pegylated recombinant human leptin), resulting mainly from reduced food intake.

Solubility

It is recommended to reconstitute the lyophilized Pegylated Leptin in sterile water or 0.4% NaHCO 3 adjusted to pH 8-9, not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

Leptin Human, PEG is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P41159)