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Leptin Mouse

Leptin Mouse Recombinant
GRF0207

Product Overview

Name	Leptin Mouse
Description	
Leptin Mouse Recombinant	
Accession (Primary)	P41160
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 mouse Leptin was lyophilized from a concentrated (1mg/ml) solution containing 0.0045mM NaHCO 3 .	
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 gel filtration analysis. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
AVPIQKVQDD TKTLIKTIVT RINDISHTQS VSAKQRVTGL DFIPGLHPIL SLSKMDQTLA VYQQVLTSLP SQNVLQIAND LENLRDLLHL LAFSKSCSLP QTSGLQKPES LDGVLEASLY STEVVALSRL QGSLQDILQQ LDVSPEC.	
Biological Activity	
Biological activity of Mouse Leptin is performed by including 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 then be further diluted to other aqueous solutions.

References

Title :Severe pulmonary metastasis in obese and diabetic mice. Publication : Article first published online: 22 SEP 2006 DOI:10.1002/ijc.22248 Copyright © 2006 Wiley-Liss, Inc. Link : Leptin Mouse prospec publication

Protein content

Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.20 as the extinction coefficient for a 0.1% (1mg/ml) solution at pH-8.0. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

Precautions

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

Target Information: (P41160)