9051 Mira Mesa Blvd, #910094
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Leptin Pufferfish

Leptin Pufferfish Recombinant
GRF0212

Product Overview

Name	Leptin Pufferfish
Description	
Leptin Pufferfish Recombinant	
Accession (Primary)	Q588G0
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 Pufferfish Leptin was lyophilized from a concentrated (0.85mg/ml) solution with 0.003mM $NaHCO_3$.	
Stability	
Lyophilized Pufferfish 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 99.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
A LPGALDAMDVEKMKSKVTWKAQGLVARIDKHFPDRGLRFDTDKVE GSTSVVASLESYNNLISDRFGGVSQIKTEISSLAGYLNHWREGNCQE QQPKVWPRRNIFNHTVSLEALMRVREFLKLLQKNVDLLERC	
Biological Activity	
Biological active as evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. The affinity of human leptin receptors is considerably lower campared to mammalian leptins.	

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Solubility

It is recommended to reconstitute the lyophilized Pufferfish Leptin in sterile 0.4% NaHCO3 pH-9 not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Protein content

Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 1.28 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).

Precautions

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

Target Information: (Q588G0)