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Super Leptin tA Human

Super Leptin Antagonist Human Recombinant
GRF0383

Product Overview

Name	Super Leptin tA Human

Description

Super Leptin Antagonist Human Recombinant

Source

Escherichia coli.

Physical Appearance

White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (1mg/ml) solution with 0.003mM NaHCO 3 .

Stability

Lyophilized Super Leptin Antagonist although stable at room temperature for several weeks, should be stored desiccated below -18°C. Upon reconstitution of super human leptin antagonist at > 0.1 mg/ml and up to 2 mg/ml and filter sterilization super human leptin antagonist can be stored at 4C or even room temperature for several weeks making it suitable for long term infusion studies using osmotic pumps. At lower concentration addition of a carrier protein (0.1% HSA or BSA) is suggested. Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by: (a) Gel filtration analysis. (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

super human leptin antagonist is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of human leptin.

Solubility

It is recommended to reconstitute the lyophilized Super Leptin Antagonist in sterile 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.

Background

Leptin is a hormone which takes part in regulating body weight, metabolism and reproductive function. Leptin is a~16 kDa protein which is encoded by the obese gene. leptin is expressed predominantly by adipocytes, which fits with the

idea that body weight is sensed as the total mass of fat in the body. Smaller amounts of leptin are also secreted by cellsin the epithelium of the stomach and in the placenta. Leptin receptors are highly expressed in areas of the hypothalamus which regulates body weight, as well as in T lymphocytes and vascular endothelial cells.

Precautions

Super Leptin tA Human is for research use only and not for use in diagnostic or therapeutic procedures.

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