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Leptin tA Human, PEG

Leptin Antagonist Triple Mutant Human Recombinant, Pegylated
GRF0217

Product Overview

Name	Leptin tA Human, PEG

Description

Leptin Antagonist Triple Mutant Human Recombinant, Pegylated

Source

Escherichia coli.

Physical Appearance

White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (0.65mg/ml) solution with 0.003mM NaHCO3.

Stability

Lyophilized PEG-SHLA although stable at room temperature for several weeks, should be stored desiccated below -20C. Upon reconstitution at > 0.1 mg/ml and up to 2 mg/ml of PEG-SHLA and filter sterilization mLEP mutant 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.

Biological Activity

Capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. Its in vitro activity is 6-8 fold lower than the non-pegylated antagonist but in vivo it has profound weight gain effect (as compared to the non-pegylated antagonist), resulting mainly from increased food intake. Its in vivo activity compared to that of PEG-MLA is 9-27 fold higher.

Solubility

It is recommended to reconstitute the lyophilized Leptin Antagonist Triple Mutant pegylated Human Recombinant in sterile 0.4% NaHCO3 adjusted to pH 8-9, 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 0.88 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 tA Human, PEG is for research use only and not for use in diagnostic or therapeutic procedures.