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

Leptin tA Rat, PEG

Leptin Antagonist Triple Mutant Pegylated Rat Recombinant
GRF0221

Product Overview

Name	Leptin tA Rat, PEG

Description

Leptin Antagonist Triple Mutant Pegylated Rat Recombinant

Source

Escherichia coli.

Physical Appearance

White lyophilized (freeze-dried) powder.

Formulation

The Rat Leptin triple anatagonist was lyophilized from a concentrated (0.65mg/ml) solution with 0.003mM NaHCO3.

Stability

Lyophilized Leptin Antagonist Triple Mutant Rat Recombinant although stable at room temperature for several weeks, should be stored desiccated below -18°C. Upon reconstitution at > 0.1 Leptin mutant mg/ml and up to 2 mM and filter sterilization LEP mutant can be stored at 4°C 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 99.0% as determined by: (a) Gel filtration analysis. (b) Analysis by SDS-PAGE.

Biological Activity

Leptin Antagonist Triple Mutant Rat Recombinant half-life in circulation after SC injection was over 20 hours. Leptin Antagonist Triple Mutant Rat Recombinant is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. Leptin Antagonist Triple Mutant Rat Recombinant in vitro activity is 5-6 fold lower than the non-pegylated antagonist, though in vivo it has profound weight gain effect (as compared to the non-pegylated antagonist), resulting mainly from increased food intake.

Solubility

It is recommended to reconstitute the lyophilized Leptin Antagonist Triple Mutant Rat Recombinant in sterile water or sterile 0.4% NaHCO3 adjusted to pH 8-9, not less than 100 µg/ml, which can then be further diluted with other aqueous solutions.

Protein content

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

Protein quantization was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.2 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 Rat, PEG is for research use only and not for use in diagnostic or therapeutic procedures.