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Leptin tA Rat

Leptin Antagonist Triple Mutant Rat Recombinant
GRF0220

Product Overview

Name	Leptin tA Rat

Description

Leptin Antagonist Triple Mutant Rat Recombinant

Source

Escherichia coli.

Physical Appearance

White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (0.85mg/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-tA 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.

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

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. It also inhibits various leptin effects in several in vitro bioassays.

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

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Protein quantization was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.21 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 is for research use only and not for use in diagnostic or therapeutic procedures.