Leptin Antagonist Quadruple Mutant Human Recombinant

Item Number	rAP-2342

Synonyms

Description

Leptin Quadruple Mutant Human Recombinant is a single polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a Mw of 16 kDa, Human Leptin was mutated, resulting in L39A/D40A/F41A/I42A.Leptin Antagonist Quadruple Mutant was purified by proprietary chromatographic

Uniprot Accesion Number

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.

Source

Escherichia coli.

Physical Appearance and Stability

White lyophilized (freeze-dried) powder. Lyophilized Leptin Antagonist Quadruple Mutant 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

Formulation and Purity

The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO3. Greater than 98.0% as determined by:(a) Gel filtration analysis.(b) Analysis by SDS-PAGE.

Application

Solubility

It is recommended to reconstitute the lyophilized Leptin Antagonist Quadruple Mutant in sterile 0.4% NaHCO3adjusted to pH 8-9, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Biological Activity

ProSpec's Leptin Quadruple Antagonist Mutant is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transected with the long form of human Leptin receptor. It also inhibits various Leptin effects in several in vitro bioassays.

Shipping Format and Condition

Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only