

RPPB0729

Product Information Protein Information

Product SKU:

RPPB0729

Host:

Escherichia coli.

Protein description:

Leptin Antagonist Triple Mutant Ovine Recombinant is a single non-glycosylated polypeptide chain containing 146 amino acids and additional Ala at N-terminus and having a molecular mass of ~ 16 kDa, Leptin was mutated, resulting in L39A/D40A/F41A mutant. Leptin Antagonist Triple Mutant Ovine Recombinant was purified by proprietary chromatographic techniques.

Appearance:

White lyophilized (freeze-dried) powder.

Formulation:

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

Purity:

Greater than 98.0% as determined by:(a) Gel filtration analysis.(b) Analysis by SDS-PAGE.

Solubility:

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

Stability:

Lyophilized Leptin Antagonist Triple Mutant Ovine Recombinant although stable at room temperature for several weeks, should be stored desiccated below -18°C. Upon reconstitution at > 0.1 Lep-tA mutant mg/ml and up to 2 mM and filter sterilization Leptin 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.

Amino Acid Sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Arg.

Biological Activity:

Assay Genie's Leptin-Antagonist Triple Mutant Ovine Recombinant is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of mouse leptin receptor. It also inhibits various leptin effects in several in vitro bioassays.