

RPPB0731

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## Product Information    Protein Information

**Product SKU:**

RPPB0731

**Host:**

Escherichia coli.

**Protein description:**

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

**Appearance:**

White lyophilized (freeze-dried) powder.

**Formulation:**

The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO<sub>3</sub>.

**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 Quadruple Mutant Ovine Recombinant in sterile 0.4% NaHCO<sub>3</sub> adjusted to pH 8-9, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized Leptin-Antagonist Quadruple Mutant Ovine Recombinant although stable at room temperature for several weeks, should be stored desiccated below -18°C. Upon reconstitution at > 0.1 LEP-qA mutant mg/ml and up to 2mg/ml 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 qA is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of ovine leptin receptor. It also inhibits various leptin effects in several in vitro bioassays.