Rat Leptin tA Recombinant Protein

RPPB0728

Product Information

Product SKU:
RPPB0728

Host:
Escherichia coli.

Protein Information

Protein description:
Leptin Antagonist Triple Mutant Rat Recombinant is a single non-glycosilated polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a molecular mass of ~ 16 kDa.The Rat Leptin antagonist was mutated, resulting in L39A/D40A/F41A mutant.The Rat Leptin antagonist is bound to 20 kDa mono-PEG at N-terminus, resulting in 35.6 kDa. The Rat Leptin triple anatagonist runs as a 48 kDa.Leptin Antagonist Triple Mutant Rat Recombinant was purified by proprietary chromatographic techniques.

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.

Purity:
Greater than 99.0% as determined by:(a) Gel filtration analysis.(b) Analysis by SDS-PAGE.

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

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.

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.