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**Product Data Sheet**

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Product Name: Leptin tA Rat  
Cat. No.: GP20711  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Solubility	It is recommended to reconstitute the lyophilized Leptin Antagonist Triple Mutant Rat Recombinant in sterile water or sterile 0.4% NaHCO <sub>3</sub> adjusted to pH 8-9, not less than 100µg/ml, which can then be further diluted with other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (0.85mg/ml) solution with 0.003mM NaHCO <sub>3</sub> .		

**Biological Activity**

ProSpec6ns 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.

**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.

**Background**

Leptin Antagonist Triple Mutant Rat Recombinant is a singly non-glycosylated polypeptide chain containing 146 amino and additional Ala at N-terminus acids and

**Caution: Product has not been fully validated for medical applications. For research use only.**

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having a molecular mass of ~ 16 kDa, Leptin was mutated, resulting in L39A/D40A/F41A mutant. Leptin Antagonist Triple Mutant Rat Recombinant was purified by proprietary chromatographic techniques.

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