



## Recombinant Human Triple Antagonist (tA) Leptin Datasheet

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**Catalog Number:** PR27102

**Product Type:** Recombinant Protein

**Source:** *E.Coli*

**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.

**Description/Molecular Mass:** Leptin Antagonist Triple Mutant Human Recombinant is a single non-glycosylated polypeptic chain containing 146 amino and additional Ala at N-terminus acids and having a molecular weight of 16 kDa, Leptin was mutated, resulting in L39A/D40A/F41A. Leptin Antagonist Trip Mutant Human Recombinant was purified by proprietary chromatographic techniques

**Protein Content:** Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.88 as the extinction coefficient for a 0.1% (1mg/ml) solution at pH 8.0. This value calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

**Purity:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Biological Activity:** Leptin triple antagonist 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.

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

**Reconstitution:** It is recommended to reconstitute the lyophilized Leptin Antagonist Triple Mutant Human 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

**Storage:** Lyophilized Leptin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Leptin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  
**Please avoid freeze-thaw cycles.**

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