

# Active Recombinant Ovine Leptin Antagonist Triple Mutant, PEG-tagged

Cat. No. LEP-2640 Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Pegylated Leptin Antagonist Triple 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 ~ 35.6 kDa, Leptin was mutated, resulting in L39A/D40A/F41A mutant. However due to enlarged hydrodynamic volume it runs on the SDS-Page as 48 kDa protein and in gel-filtration on Superdex 200 as over 200kDa protein. Leptin Antagonist Triple Mutant Ovine Recombinant Mono-Pegylated with 20kDa PEG and was purified by proprietary chromatographic techniques.
<b>Species</b>	Ovine
<b>Source</b>	Ovine
<b>Form</b>	The protein was lyophilized from a concentrated (0.65mg/ml) solution with 0.003mM NaHCO <sub>3</sub> .
<b>Purity</b>	Greater than 95.0% as determined by: (a) Gel filtration analysis. (b) Analysis by SDS-PAGE.
<b>Bio-activity</b>	Pegylated triple antagonist is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. Its in vitro activity is 6-8 fold lower than the non-pegylated antagonist but in vivo it has profound weight gain effect (as compared to the non-pegylated antagonist like in mouse leptin antagonists), resulting mainly from increased food intake.

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<b>Physical Appearance</b>	White lyophilized (freeze-dried) powder.
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Leptin-Antagonist Triple Mutant Ovine Recombinant in sterile water or sterile 0.4% NaHCO <sub>3</sub> adjusted to pH 8, not less than 100g/ml, which can then be further diluted to other aqueous solutions.
<b>Protein content</b>	Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.2 as the extinction coefficient for a 0.1% (1 mg/ml) solution at pH 8.0. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
<b>Storage</b>	Lyophilized Leptin Antagonist Triple Mutant Ovine Recombinant although stable at room temperature for several weeks, should be stored C. Upon reconstitution at μdesiccated below -18 > 0.1 Lep-tA mutant mg/ml and C or even μup to 2mM and filter sterilization Leptin mutant can be stored at 4 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.

## GENE INFORMATION

<b>Gene Name</b>	LEP leptin [ <i>Ovis aries</i> ]
<b>Official Symbol</b>	LEP
<b>Synonyms</b>	LEP; leptin; ob; leptin (obesity homolog, mouse)
<b>Gene ID</b>	443534
<b>UniProt ID</b>	Q28603

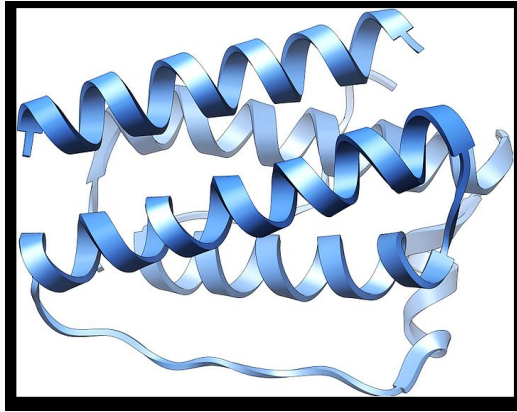
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