

Recombinant Mouse Leptin Antagonist Triple Mutant

Cat. No. Lep-261M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Leptin Antagonist Triple Mutant Mouse 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, LEP was mutated, resulting in L39A/D40A/F41A mutant. Leptin Antagonist Triple Mutant Mouse Recombinant was purified by proprietary chromatographic techniques.
Species	Mouse
Source	Mouse
Form	The protein was lyophilized from a concentrated (0.65mg/ml) solution with 0.003mM NaHCO ₃ .
Purity	Greater than 99.0% as determined by: (a) Gel filtration analysis. (b) Analysis by SDS-PAGE.
Physical Appearance	White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Leptin Antagonist Triple Mutant Mouse Recombinant in sterile water or sterile 0.4% NaHCO ₃ adjusted to pH 8-9, not less than 100g/ml, which can then be further diluted with other aqueous solutions.
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 Biological ActivityProSpecus Leptin Antagonist Triple Mutant Mouse Recombinant is capable of inhibiting Leptin-induced proliferation of BAF/3

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cells stably transfected with the long form of human Leptin receptor. It also inhibits various Leptin effects in several in vitro bioassays.

Protein content

Protein quantization was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.21 as the extinction coefficient for a 0.1% (1mg/ml) solution at pH 8.0. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

Storage

Lyophilized Leptin Antagonist Triple Mutant Mouse 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.

GENE INFORMATION

Gene Name [Lep leptin \[Mus musculus \]](#)

Official Symbol [Lep](#)

Synonyms Lep; Leptin; ob; obese

Gene ID [16846](#)

mRNA Refseq [NM_008493](#)

Protein Refseq [NP_032519](#)

UniProt ID [P41160](#)

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Chromosome Location	6 A3.3; 6 10.5 cM
Pathway	Adipocytokine signaling pathway; Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction
Function	growth factor activity; hormone activity; protein binding

PDB rendering based on 1ax8

