

Murine Leptin Triple Antagonist PEG

Synonyms:

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
5 µg	1646.960.005		
20 µg	1646.960.020		
1 mg	1646.960.199		

Please enquire for bulk quantities and other vial sizes

Description

Leptin Antagonist Triple Mutant Murine 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. The Murine Leptin antagonist was mutated, resulting in L39A/D40A/F41A mutant. The Murine Leptin antagonist is bound to 20 kDa mono-PEG at N-terminus, resulting in 35.6 kDa. The Murine Leptin triple antagonist runs as a 48 kDa.

- **Source** *E. Coli*
- **Purity** ≥ 99 % (SDS-PAGE, Gel Filtration)
- **Endotoxin level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** The Mouse Leptin triple antagonist was lyophilized from a concentrated (0.65 mg/ml) solution with 0.003 mM NaHCO₃*
- **Physical state** White lyophilized (freeze-dried) powder

Biological Activity

Leptin Antagonist Triple Mutant Mouse Recombinant half-life in circulation after SC injection was over 20 hours. Leptin Antagonist Triple Mutant Mouse 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 Mouse 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.

Reconstitution

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

Stability

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 avoid repeated freeze-thaw cycles.**

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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