



Product Datasheet

Product Name	Leptin Antagonist Triple Mutant Pegylated Mouse Recombinant
Cata No	CB501300
Source	<i>Escherichia coli</i> .
Synonyms	

Description

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

Physical Appearance

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.

Purity

Greater than 99.0% as determined by:
(a) Gel filtration analysis.
(b) Analysis by SDS-PAGE.

Formulation

The The Mouse Leptin triple antagonist was lyophilized from a concentrated (0.65mg/ml) solution with 0.003mM NaHCO₃.

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 100µg/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 2mM 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

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lower concentration addition of a carrier protein
(0.1% HSA or BSA) is suggested.

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