



Leptin Antagonist Triple Mutant, PEGylated, rat recombinant (rrLeptin-tm-PEG)

Catalog No: 97134
Lot No: XXXXX
Source: *E. coli*
Synonyms:

Description

Leptin antagonist triple mutant rat recombinant is a single non-glycosylated polypeptide chain containing 146 amino acids and additional Ala at N-terminus and having a molecular mass of approx. 16 kDa. The rat leptin antagonist was mutated, resulting in L39A/D40A/F41A mutant. The rat leptin antagonist is bound to 20 kDa mono-PEG at N-terminus, resulting in 35.6 kDa. The rat leptin antagonist triple mutant runs as a 48 kDa. Leptin antagonist triple mutant was purified by proprietary chromatographic techniques.

Physical Appearance

White lyophilized (freeze-dried) powder.

Formulation

Rat leptin triple antagonist was lyophilized from a concentrated (0.65 mg/ml) solution with 0.003 mM NaHCO₃.

Solubility

It is recommended to reconstitute the lyophilized leptin antagonist triple mutant 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, although stable at room temperature for several weeks, should be stored desiccated below -18°C. Upon reconstitution at > 0.1 mg/ml leptin mutant 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.

Purity

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

Activity

Leptin antagonist triple mutant rat recombinant half-life in circulation after SC injection was over 20 hours. Leptin antagonist triple mutant rat 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 rat 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.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51