



Product Datasheet

Product Name Leptin Antagonist Quadruple Mutant Ovine Recombinant
Cata No CB500259
Source *Escherichia coli*.
Synonyms

Description

Leptin Antagonist Quadruple 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 ~ 16 kDa, Leptin was mutated, resulting in L39A/D40A/F41A/I42A mutant. Leptin Antagonist Quadruple Mutant Ovine Recombinant was purified by proprietary chromatographic techniques.

Physical Appearance

White lyophilized (freeze-dried) powder.

Biological Activity

ProSpec's leptin qA is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of ovine leptin receptor. It also inhibits various leptin effects in several *in vitro* bioassays.

Purity

Greater than 98.0% as determined by:
(a) Gel filtration analysis.

(b) Analysis by SDS-PAGE.

Formulation

The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO₃.

Stability

Lyophilized Leptin-Antagonist Quadruple Mutant Ovine Recombinant although stable at room temperature for several weeks, should be stored desiccated below -18°C. Upon reconstitution at > 0.1 LEP-qA mutant mg/ml and up to 2 mM and filter sterilization Leptin 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.

Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Arg

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