



Ovine Leptin Quadruple Antagonist

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order#	Lot#	Expiry Date
10 µg	1648.990.010		
50 µg	1648.990.050		
1 mg	1648.990.199		

Please enquire for bulk quantities and other vial sizes.

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.

- **Source** *E. coli*
- **Purity** ≥ 98 % (SDS-PAGE, Gel Filtration)
- **Endotoxin Level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** The protein was lyophilized from a concentrated (1 mg/ml) solution with 0.0045mM NaHCO₃*
- **Physical State** White lyophilized (freeze-dried) powder

Biological Activity

Leptin quadruple antagonist 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.

Reconstitution

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

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 mg/ml 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, order number: 2835.955.xyz or 2835.958.xyz, or BSA) is suggested. **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

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

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.