



## Leptin Antagonist Quadruple Mutant, ovine recombinant (roLeptin-qm)

**Catalog No:** 94954  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:**

### Description

Leptin antagonist quadruple mutant ovine 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. Leptin was mutated, resulting in L39A/D40A/F41A/I42A mutant. Leptin antagonist quadruple mutant was purified by proprietary chromatographic techniques.

### Physical Appearance

White lyophilized (freeze-dried) powder.

### Formulation

The protein was lyophilized from a concentrated (1 mg/ml) solution with 0.0045 mM NaHCO<sub>3</sub>.

### Solubility

It is recommended to reconstitute the lyophilized leptin antagonist quadruple mutant in sterile 0.4% NaHCO<sub>3</sub> adjusted to pH 8-9, not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized leptin antagonist quadruple mutant, although stable at room temperature for several weeks, should be stored desiccated below -18°C. Upon reconstitution at > 0.1 mg/ml LEP-qA mutant 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.

### Purity

Greater than 98.0% as determined by (a) Gel filtration analysis, (b) Analysis by SDS-PAGE.

### 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.

### Activity

Leptin 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.

### 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.**

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