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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



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 NaHCO₃.

Solubility

It is recommended to reconstitute the lyophilized leptin antagonist quadruple mutant in sterile 0.4% NaHCO₃ 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

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