



Leptin, ovine recombinant, MTS Tag (roLeptin-MTS)

Catalog No: 97152
Lot No: XXXXX
Source: *E. coli*
Synonyms: OB Protein, Obesity Protein, OBS, Obesity factor

Background

A 16-kDa peptide hormone secreted from white adipocytes and implicated in the regulation of food intake and energy balance. Leptin provides the key afferent signal from fat cells in the feedback system that controls body fat stores.

Description

Leptin MTS tagged ovine recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 157 amino acids and having a molecular mass of 17.5 kDa. Leptin is purified by proprietary chromatographic techniques. The membrane translocating sequence Tag is composed of 10 amino acids Val-Leu-Leu-Pro-Val-Leu-Leu-Ala-Ala-Pro located at the N-terminus.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (1 mg/ml) solution with 0.02% NaHCO₃.

Solubility

It is recommended to reconstitute the lyophilized Leptin in sterile 0.02% NaHCO₃ not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized leptin MTS tagged, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution leptin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by (a) Analysis by SEC-HPLC, (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

Biological active as proven by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor.

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