

## Sheep Leptin Quadruple Antagonist - Purified

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| <b>Catalog No.:</b>   | AR10469PU-L  |
| <b>Quantity:</b>      | 1 mg   |
| <b>Concentration:</b> | 1.0 mg/ml (prior to lyophil.)  |
| <b>Species:</b>       | Sheep  |
| <b>Source:</b>        | E. coli  |
| <b>Format:</b>        | <b>State:</b> White lyophilized (freeze-dried) powder<br><b>Purity:</b> >98.0% as determined by Gel filtration and SDS-PAGE analysis<br><b>Buffer System:</b> Lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO <sub>3</sub><br><b>Reconstitution:</b> Restore in sterile 0.4% NaHCO <sub>3</sub> adjusted to pH 8-9, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.  |
| <b>Description:</b>   | Recombinant Ovine Leptin Antagonist Quadruple Mutant 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.<br>Purified by proprietary chromatographic techniques.<br><b>Protein content:</b> Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.21 as the extinction coefficient for a 0.1% (1mg/ml) solution at pH 8.0. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).<br><b>AA Sequence:</b><br>The sequence of the first five N-terminal amino acids was determined and was found to be <i>Ala-Val-Pro-Ile-Arg</i> .<br><b>Biological Activity:</b> 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 <i>in vitro</i> bioassays. |
| <b>Storage:</b>       | Prior to reconstitution store at 2-8°C for one month or desiccated below -18°C.<br>Following reconstitution (at > 0.1 mg/ml and up to 2 mM and filter sterilization) store undiluted at 2-8°C or even at RT for one month 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.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.   |