

## Sheep Leptin Quadruple Antagonist - Purified

<b>Catalog No.:</b>	AR10469PU-S
<b>Quantity:</b>	20 µg
<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 <b>Purity:</b> >98.0% as determined by Gel filtration and SDS-PAGE analysis <b>Buffer System:</b> Lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO <sub>3</sub> <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. Purified by proprietary chromatographic techniques. <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). <b>AA Sequence:</b> The sequence of the first five N-terminal amino acids was determined and was found to be <i>Ala-Val-Pro-Ile-Arg</i> . <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. 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. Avoid repeated freezing and thawing. Shelf life: one year from despatch.