

LEP

Recombinant Ovine Leptin Antagonist Triple Mutant

Catalog No.	CRL108A CRL108B CRL108C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	ob, leptin (obesity homolog, mouse)		
Description:	Leptin Antagonist Quadruple Mutant Ovine Recombinant is a single non-glycosylated polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a MW ~ 16 kDa, Leptin was mutated, resulting in L39A/D40A/F41A/I42A mutant		
Physical Appearance:	White lyophilized (freeze-dried) powder.		
Gene ID:	443534		
Source:	<i>E. coli</i>		
Formulation:	The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045 mM NaHCO ₃ .		
Purity:	Greater than 98.0% as determined by: (a) Gel filtration analysis. (b) Analysis by SDS-PAGE.		
Purification:	Leptin Antagonist Quadruple Mutant Ovine Recombinant was purified by proprietary chromatographic techniques.		
Biological Activity:	Leptin qA 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.		
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.		
Reconstitution:	It is recommended to reconstitute the lyophilized Leptin-Antagonist Quadruple Mutant Ovine Recombinant in sterile 0.4% NaHCO ₃ adjusted to pH 8-9, not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Protein Content:	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).		
Storage & Stability:	Lyophilized Leptin-Antagonist Quadruple Mutant Ovine Recombinant although stable at room temperature for several weeks, should be stored desiccated below -18°C. Upon reconstitution at > 0.1 LEP-qA mutant mg/ml 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.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

