

Recombinant Human Leptin Antagonist Quadruple Mutant

Cat. No. LeptinqA-14H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Leptin Quadruple Mutant is a single polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a Mw of 16 kDa, Human Leptin was mutated, resulting in L39A/D40A/F41A/I42A. Leptin Antagonist Quadruple Mutant was purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Amino acid sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln.
Physical Appearance	White lyophilized (freeze-dried) powder.
Purity	Greater than 98.0% as determined by: (a) Gel filtration analysis. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized from a concentrated (1 mg/ml) solution with 0.0045 mM NaHCO ₃ .
Solubility	It is recommended to reconstitute the lyophilized Leptin Antagonist Quadruple Mutant in sterile 0.4% NaHCO ₃ adjusted to pH 8-9, not less than 100g/ml, which can then be further diluted to other aqueous solutions.

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Biological Activity	ProSpec's Leptin Quadruple Antagonist Mutant is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transected with the long form of human Leptin receptor. It also inhibits various Leptin effects in several in vitro bioassays.
Protein content	Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.89 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	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 Leptin mutant mg/ml and up to 2 mM and filter sterilization LEP 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.
GENE INFORMATION	
Synonyms	OB Protein; Obesity Protein; OBS; Obesity factor; LEP; Lep; leptin; ob; obese; obesity factor; obese, mouse, homolog of; leptin (murine obesity homolog); leptin (obesity homolog, mouse); FLJ94114; Obese protein.