



## Product Datasheet

<b>Product Name</b>	Leptin Antagonist Quadruple Mutant Human Recombinant
<b>Cata No</b>	CB500255
<b>Source</b>	<i>Escherichia coli</i> .
<b>Synonyms</b>	

### Description

Leptin Quadruple Mutant Human Recombinant 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.

### Physical Appearance

White lyophilized (freeze-dried) powder.

### Biological Activity

ProSpec's Leptin Quadruple Antagonist Mutant is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of human Leptin receptor. It also inhibits various Leptin effects in several *in vitro* bioassays.

### 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 (1mg/ml) solution with 0.0045mM NaHCO<sub>3</sub>.

### Stability

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.**

### Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln