



## Product Datasheet

**Product Name** Leptin Antagonist Triple Mutant Human Recombinant  
**Cata No** CB500254  
**Source** *Escherichia coli*.  
**Synonyms**

### Description

Leptin Antagonist Triple Mutant Human Recombinant is a single non-glycosylated polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a molecular weight of 16 kDa, Leptin was mutated, resulting in L39A/D40A/F41A. Leptin Antagonist Triple Mutant Human Recombinant was purified by proprietary chromatographic techniques.

### Physical Appearance

White lyophilized (freeze-dried) powder.

### Biological Activity

ProSpec's Leptin triple antagonist 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 Triple Mutant Human Recombinant although stable at room temperature for several weeks, should be stored desiccated below -18°C. Upon reconstitution at > 0.1 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.**

### Sequence

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

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