

## Human Leptin Quadruple Antagonist

Synonyms:

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
10 µg	1648.950.010		
50 µg	1648.950.050		
1 mg	1648.950.199		

Please enquire for bulk quantities and other vial sizes

### 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.

- **Source** *E. Coli*
- **Purity** ≥ 98 % (SDS-PAGE, Gel Filtration)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO<sub>3</sub>\*
- **Physical state** White lyophilized (freeze-dried) powder

### Biological Activity

Leptin-induced proliferation of BAF/3 cells stably transected with the long form of human Leptin receptor can be inhibited by Leptin Quadruple Antagonist Mutant. It also inhibits various Leptin effects in several in vitro bioassays.

### Reconstitution

It is recommended to reconstitute the lyophilized Leptin Antagonist Quadruple Mutant 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.

### 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 avoid repeated freeze-thaw cycles.**

### 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.

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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