

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 NaHCO₃*
- **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% NaHCO₃ 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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