

Product: Leptin Antagonist (triple mutant), rat, recombinant
Catalog #: 11-LEP-RtA
Amount: 20 µg

DESCRIPTION: Recombinant rat leptin, one polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a molecular mass of ~ 16 kDa, rLEP was mutated, resulting in L39A/D40A/F41A mutant was purified by proprietary chromatographic techniques
The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln

SOURCE: *Escherichia coli*

PURITY: Greater than 99.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC

DIMERS & AGGREGATES: The purified rLEP triple antagonist (16K) consists of > 95% monomers as determined by gel-filtration chromatography

ENDOTOXIN: < 0.1 ng/µg (IEU/µg) of rLEP triple antagonist

PROTEIN CONTENT: Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.21 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).

FORM: Purified

STORAGE: -20°C, avoid freezing and thawing cycles after reconstitution

BIOLOGICAL ACTIVITY: rLEP triple antagonist is fully biologically active when compared to standards
rLEP 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

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