

**Product:** Leptin Antagonist (quadruple mutant), human, recombinant  
**Catalog #:** 11-LEP-HqA  
**Amount:** 20 µg

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**DESCRIPTION:** Recombinant human leptin, one polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a molecular mass of ~ 16 kDa, hLEP was mutated, resulting in L39A/D40A/F41A/I42A 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 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC

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

**ENDOTOXIN:** < 0.1 ng/µg (IEU/µg) of hLEP quadruple antagonist

**PROTEIN CONTENT:** Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.88 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:** hLEP quadruple antagonist is fully biologically active when compared to standards  
hLEP quadruple 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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