

## LEP

### Recombinant Human Leptin Antagonist Quadruple Mutant

<b>Catalog No.</b>	CRL003A CRL003B CRL003C	<b>Quantity:</b>	10 µg 50 µg 1.0 mg
<b>Alternate Names:</b>	FLJ94114, OB, OBS, leptin (mouse obesity homolog), leptin (obesity homolog, mouse), obese, mouse, homolog of, obesity factor		
<b>Description:</b>	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.		
<b>Physical Appearance:</b>	White lyophilized (freeze-dried) powder.		
<b>Gene ID:</b>	3952		
<b>Protein Content:</b>	Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.89 as the extinction coefficient for a 0.1% (1 mg/ml) solution at pH 8.0. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).		
<b>Source:</b>	<i>E. coli</i>		
<b>Formulation:</b>	The protein was lyophilized from a concentrated (1 mg/ml) solution with 0.0045 mM NaHCO <sub>3</sub> .		
<b>Purity:</b>	Greater than 98.0% as determined by: (a) Gel filtration analysis. (b) Analysis by SDS-PAGE.		
<b>Purification:</b>	Purified by proprietary chromatographic techniques.		
<b>Biological Activity:</b>	Leptin Quadruple Antagonist Mutant is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transected with the long form of human Leptin receptor. It also inhibits various Leptin effects in several in vitro bioassays.		
<b>Amino Acid Sequence:</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln.		
<b>Reconstitution:</b>	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 100 µg/ml, which can then be further diluted to other aqueous solutions.		
<b>Storage &amp; Stability:</b>	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. <b>Please prevent freeze-thaw cycles.</b>		

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