

Lep

Recombinant Rat Leptin Antagonist Triple Mutant PEG

Catalog No.	CS425A CS425B CS425C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	OB		
Description:	<p>Recombinant Rat Leptin Antagonist Triple Mutant is a single non-glycosylated polypeptide chain containing 146 aa with an additional Ala at the N-terminus and having a molecular mass of ~16 kDa. The mutant was produced by substitutions at L39A, D40A, and F41A.</p> <p>To produce the pegylated protein, the mutant was bound to 20 kDa mono-PEG at the N-terminus, resulting in a 35.6 kDa protein. The Mutant PEG runs as a 48 kDa protein and was purified by proprietary chromatographic techniques.</p>		
Gene ID:	25608		
Source:	<i>E. coli</i>		
Formulation:	Lyophilized from a concentrated (0.65 mg/ml) solution containing 0.003 mM NaHCO ₃ .		
Purity:	>99.0% as determined by Gel filtration and SDS-PAGE analyses.		
Protein Content:	Protein quantification was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.2 as the extinction coefficient for a 0.1% (1 mg/ml) solution at pH 8.0. This value was calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).		
Biological Activity:	<p>Recombinant Rat Leptin Antagonist Triple Mutant has a half-life in circulation after SC injection of >20 hours. It is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of the human leptin receptor. Its <i>in vitro</i> activity is 5-6 fold lower than the non-pegylated antagonist, although <i>in vivo</i> it has a profound effect on weight gain (as compared to the non-pegylated antagonist), resulting mainly from increased food intake.</p>		
Reconstitution:	Reconstitute the lyophilized protein in sterile water or sterile 0.4% NaHCO ₃ adjusted to pH 8-9, not less than 100 µg/ml, which can then be further diluted with other aqueous solutions.		
Storage & Stability:	<p>Lyophilized protein, although stable at room temperature for several weeks, should be stored desiccated at -20°C to -80°C. Upon reconstitution at >0.1 mg/ml, dilution up to 2 mM, and filter sterilization, the protein can be stored at 2-4°C 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 prevent freeze-thaw cycles.</p>		

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