Leptin Triple Antagonist Human Active Protein

PRODUCT OVERVIEW

Product Name	Leptin Triple Antagonist, Active Protein
Full Product Name	Recombinant Human Leptin Triple Antagonist, Pegylated
Product Synonym Names	Leptin tA Human, PEG; Leptin Antagonist Triple Mutant Human Recombinant, Pegylated; Leptin tA PEG
Host	E Coli
Form/Format	The protein was lyophilized from a concentrated (0.65mg/ml) solution with 0.003mM NaHCO3. White lyophilized (freeze-dried) powder.
Purity/Purification	Greater than 98.0% as determined by: (a) Gel filtration analysis. (b) Analysis by SDS-PAGE.
Preparation and Storage	Lyophilized PEG-SHLA although stable at room temperature for several weeks, should be stored desiccated below -20C. Upon reconstitution at > 0.1 mg/ml and up to 2 mg/ml of PEG-SHLA and filter sterilization mLEP mutant can be stored at 4C 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 prevent freeze-thaw cycles.
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Solubility	It is recommended to reconstitute the lyophilized Leptin Antagonist Triple Mutant pegylated Human Recombinant in sterile 0.4% NaHCO3 adjusted to pH 8-9, not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
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).
Biological Activity	Capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. Its in vitro activity is 6-8 fold lower than the non-pegylated antagonist but in vivo it has profound weight gain effect (as compared to the non-pegylated antagonist), resulting mainly from increased food intake. Its in vivo activity compared to that of PEG-MLA is 9-27 fold higher.
Product Categories/Family for Leptin Triple Antagonist active protein	Cytokines and Growth Factors; Growth Factors; Leptin
Related Product Information for Leptin Triple Antagonist active protein	**Description:** Pegylated Leptin Antagonist Triple Mutant Human Recombinant is a single non-glycosilated polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a molecular weight of 35.6kDa, Leptin was mutated, resulting in L39A/D40A/F41A. However due to enlarged hydrodymanic volume it runs on the SDS-PAGE as 48 kDa protein and in gel-filtration on Superdex 200 as over 200 kDa protein. Leptin Antagonist Triple Mutant Human Recombinant is Mono-Pegylated with 20kDa PEG and was purified by proprietary chromatographic techniques.
Other Notes	Small volumes of Leptin Triple Antagonist active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Leptin Triple Antagonist purchase	MBS143552 is an active protein targeting Leptin Triple Antagonist. Also known as Recombinant Human Leptin Triple Antagonist, Pegylated. Host: E Coli.

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Online datasheet: https://www.mybiosource.com/active-protein/leptin-triple-antagonist/143552