

super leptin antagonist Active Protein | SMLA active protein

Mouse super leptin antagonist (mutant D23/L39A/D40A/F41A)

CATALOG #
AAA13623

HOST
Escherichia Coli

PRODUCT SYNONYMS

super leptin antagonist; Mouse super leptin antagonist (mutant D23/L39A/D40A/F41A); Mouse super-active leptin antagonist (SMLA); SMLA active protein

PRODUCT SPECIFICATIONS

Host	Escherichia Coli
Purity/Purification	The purity of mouse super-active leptin antagonist is greater than 98.0% as determined by: (a) Gel filtration analysis. (b) Analysis by reducing and non-reducing SDS-PAGE gel.
Form/Format	The mouse super-active leptin antagonist was lyophilized from a concentrated (1mg/ml) solution with 0.003mM NaHCO ₃ .
Sequence	The sequence of the human leptin antagonist was determined and was found to be Ala-Val-Pro-Ile-Gln
Solubility	It is recommended to reconstitute the lyophilized mouse super-active leptin antagonist in sterile water or sterile 0.4% NaHCO ₃ adjusted to pH 8-9, not less than 100ug/ml, which can then be further diluted with other aqueous solutions.
Protein Content	Protein quantization of mouse super-active leptin antagonist was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.200 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).
Dimers and Aggregates	The purified mouse super-active leptin antagonist (16K) consists of > 95% monomers as determined by gel-filtration chromatography.
Endotoxin	The endotoxin content of mouse super-active leptin antagonist is less than 0.02 ng/ug (0.2 EU/ug) of mouse leptin antagonist.
Physical Appearance	White lyophilized (freeze-dried) powder.
Biological Activity	Mouse super-active leptin antagonist is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. Mouse super-active leptin antagonist also inhibits various leptin effects in several in vitro bioassays. The inhibitory activity of mouse super-active leptin antagonist was increased 14 to 60 fold as measured by various criteria such as binding properties to human leptin binding domain (hLBD) and in vitro and in vivo bioassays as compared to mouse leptin antagonist.
Usage	Mouse super-active leptin antagonist is furnished for laboratory research use only. The product may not be used as drugs, agricultural or pesticidal products, food additives, local application, or household chemicals. It is for research purposes only- commercial use has been licensed exclusively to a third party.
Preparation and Storage	Lyophilized mouse super-active leptin antagonist although stable at room temperature for several weeks, should be stored desiccated below -20 degree C. Upon reconstitution of mouse super-active leptin antagonist at > 0.1 mg/ml and up to 2 mg/ml and filter sterilization mouse super-active leptin antagonist can be stored at 4 degree 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. Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for SMLA active protein	Recombinant mouse leptin, one polypeptide chain containing 146 amino and additional Ala at N-terminus acids and having a molecular mass of ~ 16 kDa, mLEP was mutated, resulting in D23L/L39A/D40A/F41A mutant that was purified by proprietary chromatographic techniques.
Product Categories/Family for SMLA active protein	Leptin and leptin muteins

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/escherichia-coli-smla-active-protein/super-leptin-antagonist/13623>