

super leptin antagonist Active Protein | SHLA active protein

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

CATALOG #
AAA60573

HOST
E Coli

PRODUCT SYNONYMS

super leptin antagonist; Rat super leptin antagonist (mutant D23/L39A/D40A/F41A); Rat super-active leptin antagonist (SHLA); SHLA active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	The purity of super rat 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	White lyophilized (freeze-dried) powder.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino ofacidsofs uperrattlep tinantagon istwasdete rminedandw asfoundtob eAla-Val-P ro-Ile-His .
Solubility	It is recommended to reconstitute the lyophilized super rat 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 super rat leptin antagonist was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.20 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 super rat leptin antagonist (16K) consists of > 95% monomers as determined by gel-filtration chromatography.
Endotoxin	Less than 0.02 ng/ug (0.2 EU/ug) of super rat leptin antagonist
Formulation	The recombinant protein was lyophilized from a concentrated (1 mg/ml) solution with 0.003mM NaHCO ₃ .
Biological Activity	super rat leptin antagonist is capable of inhibiting leptin-induced proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. Super rat leptin antagonist also inhibits various leptin effects in several in vitro bioassays. The inhibitory activity of super rat 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.
Preparation and Storage	Lyophilized super rat leptin antagonist although stable at room temperature for several weeks, should be stored desiccated below -20 degree C. Upon reconstitution at of super rat leptin antagonist at > 0.1 mg/ml and up to 2 mg/ml and filter sterilization super rat 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 SHLA active protein	Recombinant super rat leptin antagonist is one polypeptide chain containing 146 amino. Super rat leptin antagonist (SRLA) was initially mutated, resulting in D23L/L39A/D40A/F41A super rat leptin antagonist that was purified by proprietary chromatographic techniques. The procedure was similar to that described in in Shpilman at al., J. Biol. Chem. 286:4439-42 (2011) for mouse super leptin antagonist.
Product Categories/Family for SHLA 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/e-coli-shla-active-protein/super-leptin-antagonist/60573>