

Tilapia Leptin-A Recombinant Protein



RPPB0720

Product Information Protein Information

Product SKU:

RPPB0720

Accession:

S5YZ30

Host:

Escherichia Coli.

Protein description:

Leptin-A Tilapia Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 161 amino acids and having a molecular mass of 16,491 Dalton. The Leptin-A Tilapia is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a concentrated (1mg/ml) solution containing NaHCO₃ at 1:2 salt: protein ratio.

Purity:

Greater than 95.0% as determined by:(a) Gel filtration analysis.(b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Leptin-A Tilapia in sterile water or 0.4% NaHCO₃ adjusted to pH 8-9, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Leptin-A Tilapia although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Leptin-A Tilapia should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence:

The first six N-terminal amino acids of recombinant Tilapia leptin A are Ala-Pro-Leu-Pro-Val-Glu.

Biological Activity:

Tilapia leptins were found to be biologically active in promoting proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor, but their activity was lower than that of mammalian leptin. Furthermore, the Tilapia leptins were biologically active in promoting STAT-LUC activation in COS7 cells transfected with Tilapia leptin receptor but not in cells transfected with human leptin receptor. Tilapia Leptin A was more active than Tilapia Leptin B.