

Pufferfish Leptin Active Protein | pfLeptin active protein

Recombinant Pufferfish Leptin

CATALOG #
AAA38733

HOST
E Coli

PRODUCT SYNONYMS

Pufferfish Leptin; Recombinant Pufferfish Leptin; Leptin Pufferfish; Leptin Pufferfish Recombinant; OB Protein; Obesity Protein; OBS; Obesity factor; pfLeptin active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 99.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The Pufferfish Leptin was lyophilized from a concentrated (0.85mg/ml) solution with 0.003mM NaHCO ₃ . Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dwasfoundt obeAla-Leu -Pro-Gly-A la
Sequence Length	152
Solubility	It is recommended to reconstitute the lyophilized Pufferfish Leptin in sterile 0.4% NaHCO ₃ pH-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 1.28 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
Biological Activity	Biological active as evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. The affinity of human leptin receptors is considerably lower compared to mammalian leptins.
Preparation and Storage	Lyophilized Pufferfish Leptin although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution Leptin should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for pfLeptin active protein	Description: Leptin Pufferfish (Takifugu rubripes) Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 16 kDa. Bioactive Leptin Pufferfish (Takifugu rubripes) Recombinant was prepared according to the sequence published by Kurokawa et al. (2005)Peptides 26, 745-750 in two forms: monomer and covalent dimer. MS analysis revealed molecular masses of 15,291 and 30,585 Da, close to the theoretical values of 15,270 and 30,540 Da. CD spectra revealed high similarity to mammalian leptins. Other details of its preparation will be soon published by Yacobovitz et al (in press), General and Comparative Endocrinology.The Pufferfish Leptin is purified by proprietary chromatographic techniques. Introduction: A 16-kDa peptide hormone secreted from white adipocytes and implicated in the regulation of food intake and energy balance. Leptin provides the key afferent signal from fat cells in the feedback system that controls body fat stores.
Product Categories/Family for pfLeptin active protein	Cytokines and Growth Factors; Growth Factors; Leptin

NCBI AND UNIPROT INFORMATION

NCBI GI #	74096427
NCBI GeneID	548631
NCBI Accession #	NP_001027897.1
NCBI GenBank Nucleotide #	NM_001032725.1
UniProt Accession #	Q588G0
Molecular Weight	17,204 Da
NCBI Official Full Name	leptin
NCBI Official Symbol	lep
NCBI Protein Information	leptin
UniProt Protein Name	Leptin
UniProt Gene Name	lep
UniProt Entry Name	LEP_TAKRU

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-pfleptin-active-protein/pufferfish-leptin/38733>