www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

Leptin Rat

Description: Leptin Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 147 amino acids and having a molecular mass of 16 kDa.The Leptin is purified by proprietary chromatographic techniques.

Synonyms:OB Protein, Obesity Protein, OBS, Obesity factor.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-His.

Purity: Greater than 95.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO3.

Stability:
Lyophilized Leptin althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Leptin 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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized Leptin in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

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.

Biological Activity:
Biological activity of Leptin Rat is evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor.

References:
1.Title:Expression of Hypothalamic KiSS-1 System and Rescue of Defective Gonadotropic Responses by Kisspeptin in Streptozotocin-Induced Diabetic Male Rats.Publication: doi: 10.2337/db05-1584 Diabetes September 2006 vol. 55 no. 9 2602-2610 Link:http://diabetes.diabetesjournals.org/content/55/9/2602.fullpatientinform-links=yes&legid=diabetes;55/9/26022.Title:Desensitization of gonadotropin responses to kisspeptin in the female

© 2015 NeoScientific

www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

rat: analyses of LH and FSH secretion at different developmental and metabolic states.Publication:Am J Physiol Endocrinol Metab 294: E1088E1096, 2008.294: E1088E1096, 2008. First published April 15, 2008; doi:10.1152/ajpendo.90240.2008.Link:http://ajpendo.physiology.org/content/294/6/E1088.full.pdf3. Title:p38 MAPK and LXR mediate leptin effect on SREBP-1c expression in hepatic stellate cells (short title: Leptin effect on SREBP-1c expression) .Publication:Link:http://www.molmed.org/content/papers%20in%20press/11_243_Yan.pdf4.Title:Neuroprotection by leptin in a rat model of permanent cerebral ischemia: effects on STAT3 phosphorylation in discrete cells of the brain.Publication:Citation: Cell Death and Disease (2011) 2, e238; doi:10.1038/cddis.2011.125Published online 8 December 2011.Link:http://www.nature.com/cddis/journal/v2/n12/full/cddis2011125a.html

To place an order, please Click HERE.

Catalog #:CYPS-234

For research use only.

© 2015 NeoScientific

Copyrights @ 2013 NEO Group 245 First Street, 18th Floor, Cambridge MA 02142 888.754.5670 (toll-free)

Request a CATALOG CLICK HERE