

Leptin Human Recombinant, expressed in E.coli

Cat.NO.: TP02802

3th Edition

Synonyms:LEP, OB, OBS, Obesity factor

Description:Human leptin is a 16-kDa nonglycosylated hormone that is produced in mature adipocytes. Leptin acts primarily in the hypothalamus to reduce food intake and body weight. In ob/ob mice, the gene encoding leptin is mutated, resulting in morbid obesity and associated abnormalities, including hyperphagia, hypothermia, diabetes and infertility. The function of leptin in regulating appetite and metabolism, as well as the possibility of using leptin as a therapeutic agent, are currently under intense investigation.

Form:Liquid. In Phosphate buffered saline (pH 7.4)

Molecular Weight:16 kDa (147 aa), confirmed by MALDI-TOF

Sequences:

MVPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQKVTGLDFIPGLHPILTLKMDQTLAVYQQILTSMPSRNVIQISNDL
ENLRDLLHVLAFSKSKCHLPWASGLETLDSLGGVLEASGYSTEVALSRLQGSLQDMLWQLDLSPGC

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.