



Human Recombinant Leptin protein

Origin:	Recombinant	Cat. No.:	41B029
Source:	<i>E.coli</i>	Size:	0.1 mg
Species:	Human	Purity:	>95%

Description

Recombinant human Leptin without Signal peptide (AA22-167), total 147 amino acids (AA). N-terminal His-tag removed. **Mw: 16.1 kDa (calculated). 1 extra AA left (In bold).**

Introduction to the Molecule

As one of the most important adipose derived hormones, Human Leptin is secreted primarily in the adipocytes of white adipose tissue, and the level of circulating leptin is directly proportional to the total amount of fat in the body. It acts on receptors in the hypothalamus of the brain where it inhibits appetite and has been shown to reduce body weight, food consumption, and plasma glucose levels in various in vivo models.

Amino Acid Sequence

AVPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQ
KVTGLDFIPGLHPILTLSKMDQTLAVYQQILTSMP
SRNVIQISNDLENLRDLLHVLAFSKSchLPWASG
LETLDSLGGVLEASGYSTEVVALSRLQGSLQDM
LWQLDLSPGC

Formulation

Lyophilized in 1 mg/mL in PBS.

Endotoxin Level

<0.2 EU/ug.

Applications

Cell culture, animal studies, ELISA and Western blotting.

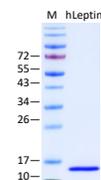
Reconstitution

Add sterile deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

Storage

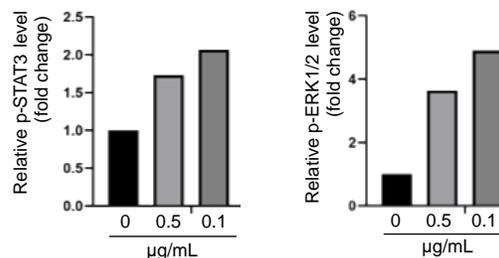
Store lyophilized protein at -20°C . Aliquot reconstituted protein and store at -80°C . Avoid repeated freezing/thawing cycles

SDS-PAGE gel



Biological Activity Test

Determined by the effects of recombinant leptin on phosphorylation of STAT3 (p-STAT3) and ERK1/2 (p-ERK1/2) in 3T3-L1 adipocytes, measured with ELISA at 30 minutes after treatment.



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