



Mouse Recombinant Leptin protein

Origin:	Recombinant	Cat. No.:	42B039
Source:	<i>E.coli</i>	Size:	0.1 mg
Species:	Mouse	Purity:	>95%

Description

Recombinant Mouse 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

Encoded by the ob (obese) gene, Leptin is an adipose-derived cytokine that suppresses appetite and increases thermogenesis. Mouse Leptin shares approximately 84% sequence identity with the human protein. Mice with mutations in the obese gene that block the synthesis of Leptin have been found to be obese, diabetic and to have reduced activity, metabolism and body temperature.

Amino Acid Sequence

AVPIQKVQDDTKLTIKTIVTRINDISHTQSVSAKQ
RVTGLDFIPGLHPILSLSKMDQTLAVYQQVLTSL
PSQNVLQIANDLENLRDLLHLLAFSKSCSLPQTS
GLQKPESLDGVLEASLYSTEVVALSRLQGSLQDI
LQQLDVSPEC

Formulation

Lyophilized in 1 mg/mL in PBS.

Endotoxin Level

<0.2 EU/ug.

Applications

Cell culture, animal studies, ELISA and Western blotting.

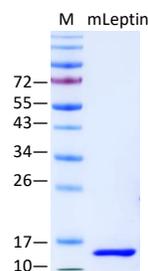
Reconstitution

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

Storage

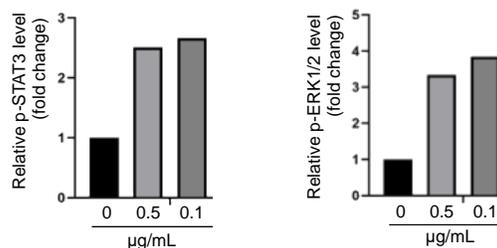
Store lyophilized protein at -20°C . Aliquot reconstituted protein and store at -80°C . Avoid repeated freezing/thawing cycles

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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