

Recombinant Rat Lep

Cat. No. Lep-228R **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Rat
Source	E.coli
Description	Leptin (Greek leptos meaning thin) is a 16 kDa protein hormone that plays a key role in regulating energy intake and energy expenditure, including appetite and metabolism. It is one of the most important adipose derived hormones. The Lep is located on chromosome 7 in humans.
Form	Filtered (0, 4 µm) and lyophilized in 0.5 mg/mL in 0.002 mM NaHCO ₃
Research topic	Energy metabolism and body weight regulation
Purity	>95%
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	ELISA; Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein

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Sequences of amino acids	VPIHKVQDDT KTLIKTIVTR INDISHTQSV SARQRTGLD FIPGLHPILS LSKMDQTLAV YQQILTSPLS QNVLQIAHDL ENLRDLLHLL AFSKSCSLPQ TRGLQKPESL DGVLEASLYS TEVVALSRLQ GSLQDILQQL DLSPEC
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.
GENE INFORMATION	
Gene Name	Lep leptin [<i>Rattus norvegicus</i>]
Official Symbol	Lep
Synonyms	Lep; leptin; OB; obese; obesity factor
Gene ID	25608
mRNA Refseq	NM_013076
Protein Refseq	NP_037208
UniProt ID	O00253
Chromosome Location	4q22
Pathway	Adipocytokine signaling pathway; Adipogenesis; Cytokine-cytokine receptor interaction; Diabetes pathways; Incretin Synthesis; Integration of energy metabolism;

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Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction; Regulation of Insulin Secretion; Synthesis

Function

cytokine activity; growth factor activity; hormone activity; peptide hormone receptor binding

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