

LEP (Human) Recombinant Protein

Catalog # P8876

Size 100 ug

Specification

Product Description	Human LEP (P41159) recombinant protein with Ala at N-terminus and one molecule of PEG at N-terminal expressed in <i>Escherichia coli</i> .
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	35.6
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 99% by Gel filtration analysis and SDS PAGE
Storage Buffer	Lyophilized from 0.003mM NaHCO ₃ Having 35-40% protein.
Storage Instruction	Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — LEP

Entrez GeneID	3952
Protein Accession#	P41159
Gene Name	LEP

Gene Alias	FLJ94114, OB, OBS
Gene Description	leptin
Omim ID	164160
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that is secreted by white adipocytes, and which plays a major role in the regulation of body weight. This protein, which acts through the leptin receptor, functions as part of a signaling pathway that can inhibit food intake and/or regulate energy expenditure to maintain constancy of the adipose mass. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in this gene and/or its regulatory regions cause severe obesity, and morbid obesity with hypogonadism. This gene has also been linked to type 2 diabetes mellitus development. [provided by RefSeq]
Other Designations	leptin (murine obesity homolog) leptin (obesity homolog, mouse) obese, mouse, homolog of obesity factor

Pathway

- [Adipocytokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)
- [Jak-STAT signaling pathway](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Adenocarcinoma](#)
- [Albuminuria](#)
- [Amyotrophic lateral sclerosis](#)
- [Anorexia Nervosa](#)
- [Anoxia](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Attention Deficit Disorder with Hyperactivity](#)

- [Autistic Disorder](#)
- [Behcet Syndrome](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bulimia](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Coronary Restenosis](#)
- [Cues](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Disease Progression](#)
- [Diseases in Twins](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Fatty Liver](#)

- [Fetal Membranes](#)
- [Fetal Weight](#)
- [Genetic Predisposition to Disease](#)
- [HELLP Syndrome](#)
- [Hepatitis](#)
- [Hypertension](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Microsatellite Instability](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [NARP](#)
- [Neovascularization](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)

- [Pregnancy in Diabetics](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psoriasis](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Satiety Response](#)
- [Schizophrenia](#)
- [Sleep Apnea](#)
- [Taste](#)
- [Thinness](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Neoplasms](#)
- [Weight Gain](#)
- [Weight Loss](#)
- [Werner syndrome](#)