

Recombinant Human LEPR

Cat. No. LEPR-801H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human LEPR full-length ORF (AAI60009.1) recombinant protein without tag.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene belongs to the gp130 family of cytokine receptors that are known to stimulate gene transcription via activation of cytosolic STAT proteins. This protein is a receptor for leptin (an adipocyte-specific hormone that regulates body weight), and is involved in the regulation of fat metabolism, as well as in a novel hematopoietic pathway that is required for normal lymphopoiesis. Mutations in this gene have been associated with obesity and pituitary dysfunction. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. It is noteworthy that this gene and LEPROT gene (GeneID:54741) share the same promoter and the first 2 exons, however, encode distinct proteins.
Form	Liquid
Molecular Mass	128.15 kDa
AA Sequence	MICQKFCVLLHWEFIYVITAFNLSYPITPWRFKLSCMPPNSTYDYFLLPAGLSKNTS NSNGHYETAVEPKFNSS GTHFSNLSKTTFHCCFRSEQDRNCSLCADNIEGKTFVST VNSLVFQQIDANWNIQCWLKGDCLKFICYVESLFKN LFRNYNYKVHLLYVLPEVLED SPLVPQKGSFQMVHCNCSVHECCECLVPVPTAKLNDTLLMCLKITSGGVIFQSP LM SVQPINMVKPDPLGLHMEITDDGNLKISWSSPPLVPFPLQYQVKYSENSTTVIREAD

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KIVSATSLLVDSILP GSSYEVQVRGKRLDGPGIWSDWSTPRVFTTQDVIYFPPKILTS
VGSNVSFHCIYKKENKIVPSKEIVWWWNLAEK IPQSQYDVVSDHVSKVTFFNLNETK
PRGKFTYDAVYCCNEHECHHRYAELYVIDVNINISCETDGYLTKMTCRWS TSTIQSL
AESTLQLRYHRSSLYCSDIPSIHPISEPKDCYLQSDGFYECIFQPIFLLSGYTMWIRIN
HSLGSLDSP PTCVLPDSVVKPLPPSSVKAETINIGLLKISWEKPVFPENNLQFQIRYG
LSGKEVQWKMYEVYDAKSKSVSLPV PDLCAVYAVQVRCKRLDGLGYWSNWSNPA
YTVVMDIKVPMRGPEFWRIINGDTMKKEKNVTLLWKPLMKNDLCS VQRYVINHHT
SCNGTWSEDEVGNHTKFTFLWTEQAHTVTVLAINSIGASVANFNLTFSWPMASKVNIVQ
SLSAYPLN SSCVIVSWILSPSDYKLMYFIIWKNLNEDGEIKWLRISSSVKKYYIHDHF
IPIEKYQFSLYPIFMEGVGKPKII NSFTQDDIEKHQSDAGLYVIVPVISSSILLGLTLLIS
HQRMKKLFWEDVPNPKNCSWAQGLNFQKPETFEHLFI KHTASVTCGPLLLEPETIS
EDISVDTSWKNKDEMMPTTVSLLSTTDLEKGSVCISDQFNSVNFSEAEGTEVTYPE
DESQRQPFVKYATLISNSKPSETGEEQGLINSSVTCKFSSKNSPLKDSFSNSWEIE
AQAFFILSDQHPNIIIPH LTFSEGLDELLKLEGNFPEENNDKKSIIYYLGVTSIKKRESG
VLLTDKSRVSCPPAPCLFTDIRVLQDSCSHFVE NNINLGTSSKKTFAASYMPQFQTC
STQTHKIMENKMCDLTV

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name **LEPR leptin receptor [Homo sapiens (human)]**

Official Symbol LEPR

Synonyms LEPR; OBR; OB-R; CD295; LEP-R; LEPRD; leptin receptor; huB219; OB receptor

Gene ID **3953**

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mRNA Refseq	NM_001003679
Protein Refseq	NP_001003679
MIM	601007
UniProt ID	P48357
Chromosome Location	1p31
Pathway	AMPK signaling; Adipocytokine signaling pathway; Cytokine-cytokine receptor interaction
Function	cytokine receptor activity; protein binding; transmembrane signaling receptor activity

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