

Recombinant Human LEPR Protein, Fc-tagged

Cat. No. LEPR-350H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LEPR protein with Fc tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1165
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 (PMID:9207021).
Form	Lyophilized
Molecular Mass	121 kDa
AA Sequence	MICQKFCVLLHWEFIYVITAFNLSYPITPWRFKLSCMPPNSTYDYFLLPAGLSKNTS NSNGHYETAVEPKFNSSGTHFSNLSKTTFHCCFRSEQDRNCSLCADNIEGKTFVST

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VNSLVFQQIDANWNIQCWLKGDCLKFICYVESLFKNLFRNRYNYKVHLLYVLPEVLEDS
 PLVPQKGSFQMVHCNCSVHECCECLVPVPTAKLNDTLLMCLKITSGGVIFQSPLMSV
 QPINMVKPDPPLGLHMEITDDGNLKISWSSPPLVPFPLQYQVKYSENSTTVIREADKI
 VSATSLLVDSILPGSSYEVQVRGKRLDGPWSDWSTPRVFTTQDVIYFPPKILTSVG
 SNVSFHCYKKNKIVPSKEIVWWMNLAEKIPQSQYDVVSDHVSKVTFNLTNETKPR
 GKFTYDAVYCCNEHECHHRYAELYVIDVNINISCETDGYLTKMTCRWSTSTIQSLAE
 STLQLRYHRSSLYCSDIPSIHPISEPKDCYLQSDGFYECIFQPIFLLSGYTMWIRINHSL
 GSLDSPPTCVLPDSVVKPLPPSSVKAETINIGLLKISWEKPVFPENNLQFQIRYGLSG
 KEVQWKMYEVYDAKSKSVSLPVPDLCAVYAVQVRCKRLDGLGYWSNWSNPAYTV
 VMDIKVPMRGPEFWRIINGDTMKKEKNVTLLWKPLMKNDLCSVQRYVINHHTSCN
 GTWSEDEVGNHTKFTFLWTEQAHTVTVLAINSIGASVANFNLTFSWPMSKVNIVQSLS
 AYPLNSSCVIVSWILSPSDYKLMYFIEWKLNLEDGEIKWLRISSSVKKYYIHDHFIPIE
 KYQFSLYPIFMEGVGKPKIINSFTQDDIEKHQSDAGLYVIVPVISSSILLGLTLLISHQR
 MKKLFWEDVPNPKNCSSWAQGLNFQKPFTEHLFIKHTASVTCGPLLLEPETISEDIS
 VDTSWKNKDEMMPTTVSLLSTTDLEKGSVCISDQFNSVNFSEAEGTEVTYEDESQ
 RQPFVKYATLISNSKPSETGEEQGLINSSVTCKFSSKNSPLKDSFSNSSWEIEAQAFF
 ILSDQHPNIISPHLTFSEGLDELLKLEGNFPEENNDKKSIIYLGVTSIKKRESGVLLTDK
 SRVSCPPFAPCLFTDIRVLQDSCSHFVENNINLTSSKKTFASYMPQFQTCSTQTHKI
 MENKMCDLTV

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18
 centigrade for future use.

Storage At -20 centigrade.

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Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.
GENE INFORMATION	
Gene Name	LEPR leptin receptor [Homo sapiens (human)]
Official Symbol	LEPR
Synonyms	LEPR; leptin receptor; CD295; OBR; huB219; OB receptor; OB-R; LEP-R; DKFZp686B1731;
Gene ID	3953
mRNA Refseq	NM_001003679
Protein Refseq	NP_001003679
MIM	601007
UniProt ID	P48357

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