

Recombinant Human Leptin Receptor, Fc-His

Cat. No. LEPR-1662H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LEPR was expressed in NSO cells. The DNA sequence encoding the extracellular domain of Leptin receptor was fused to the Fc region of human IgG1 (with HIEGR added at the amino-terminus and 6X-his tag added at the c-terminus).
Species	Human
Source	Mammalian Cells
Description	Leptin receptor, also known as LEPR, and CD295 (cluster of differentiation 295) is a single-transmembrane-domain receptor of the cytokine-receptor family. Leptin receptor exists in multiple forms with a common extracellular domain and a variable length cytoplasmatic portion. Leptin receptor may act as a negative regulator of Leptin activity and it may maintain a pool of available bioactive Leptin by binding and delaying its clearance from circulation. Leptin receptor is considered a physiological marker of primate fetal lung maturity.
Molecular Weight	The predicted molecular weight of Recombinant Human Leptin R is Mr 121 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 190-220 kDa.
State Of Matter	Lyophilized.
Purity	>97% by SDS Page and analyzed by silver stain.

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Formulation	The protein was 0.2 µm filtered and lyophilized from PBS.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human Leptin R was determined by its ability to neutralize the activity of recombinant Human Leptin on leptin-dependent human OB-R transfected murine BaF3 cells. The expected ED50 is typically 0.02 - 0.12 µg/ml in the presence of 3 ng/ml rhLeptin.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	LEPR leptin receptor [Homo sapiens]
Synonyms	LEPR; leptin receptor; OBR; CD295; OB receptor; DB; Leptin receptor; CD295 antigen; LEP-R; OB-R; HuB219; OTTHUMP00000010694; OTTHUMP00000010693
Gene ID	3953
mRNA Refseq	NM_001003679
Protein Refseq	NP_001003679
MIM	601007
UniProt ID	P48357

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Chromosome Location	1p31
Pathway	Adipocytokine signaling pathway; Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction
Function	cytokine receptor activity; peptide hormone binding; protein binding; protein-hormone receptor activity

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