

HUMAN LEPR PROTEIN

Cat.#: 12271

Product Name: Human LEPR Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: OBR;OB-R;CD295;LEP-R;LEPRD

Target: LEPR

UNIPROT ID: P48357

Description: Recombinant human LEPR Protein with C-terminal 6xHis tag

Background: 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).[provided by RefSeq, Nov 2010]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 94.3 kDa after removal of the signal peptide. The apparent molecular mass of LEPR-His is approximately 130-250 kDa due to glycosylation.

Molecular Characterization: LEPR(Phe22-Asp839) 6×His tag

Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

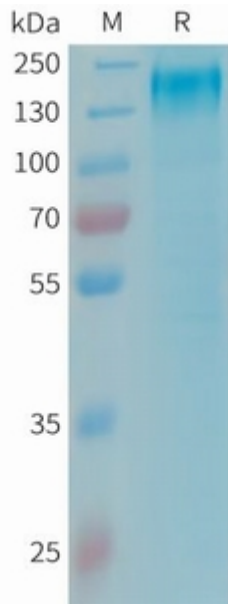


Figure 1. Human LEPR Protein, His Tag on SDS-PAGE under reducing condition.