

## Recombinant Human Leptin Receptor

<b>CATALOG #:</b>	4582-10	10 µg
	4582-50	50 µg
	4582-1000	1 mg
<b>LOT #:</b>	_____	
<b>SYNONYMS:</b>	OB Protein, Obesity Protein, OBS, Obesity factor	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	> 98 % by SDS-PAGE and RP-HPLC	
<b>FORM:</b>	Lyophilized from 0.0045 mM NaHCO <sub>3</sub>	

**RECONSTITUTION:**

Centrifuge the vial prior to opening. The lyophilized Leptin Binding Domain is very soluble in water and most aqueous buffers below and above the isoelectric point (~ 5.9).

**STORAGE CONDITIONS:**

The lyophilized protein is best-stored desiccated below 0°C. The reconstituted protein should be stored at 4°C. Avoid freeze/thaw cycles.

**DESCRIPTION:**

Leptin Binding Domain Human Recombinant also called Leptin soluble receptor produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 208 amino acids and having a molecular mass of 24.5 kDa. Leptin Receptor consists of the cytokine binding domain of leptin receptor amino acids 428-635 of human leptin receptor. The Leptin Binding Domain is purified by proprietary chromatographic techniques.

**AMINO ACID SEQUENCE:**

The sequence of the first four N-terminal amino acids was determined and was found to be Ala-Thr-Pro-Val

**BIOLOGICAL ACTIVITY:**

Biological Activity is evidenced by high affinity binding of mammalian leptins at 1:1 molar ratio.

**RELATED PRODUCTS:**

## Apoptosis Detection Kits &amp; Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

## Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

## Cell Proliferation &amp; Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

## Cell Damage &amp; Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

## Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

## Adipocyte &amp; Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

## Molecular Biology &amp; Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

## Growth Factors and Cytokines

## Monoclonal and Polyclonal Antibodies

**FOR RESEARCH USE ONLY! Not to be used in humans.**