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Datasheet for ABIN7318719 Leptin Protein (LEP)

Overview

Quantity:	50 µg
Target:	Leptin (LEP)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human Leptin Protein (Active)
Sequence:	Val22-Cys167
Characteristics:	Recombinant Human Leptin is produced by our E.coli expression system and the target gene encoding Val22-Cys167 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human Leptin at 10µg/ml(100 µl/well) can bind Human CD295-His(Cat: PKSH033606).

Target Details

Target:	Leptin (LEP)
Alternative Name:	Leptin (LEP Products)

Target Details

Background:	<p>Background: Leptin is a hormone secreted from white adipocytes and plays important role in the regulation of food intake and energy balance. Leptin functions via signaling pathways involving OB-R in hypothalamus. Animal models have revealed the influence of Leptin in reducing body weight and regulating blood glucose level. When mutations are introduced in obese gene, mice with impaired function of leptin are massively obese and in high risk of diabetes. Leptin deficiency reduces metabolic rate. Leptin deficient mice are less active and with lower body temperature than normal animals. Human Leptin shares approximately 84 % sequence identity with the mouse protein. Human Leptin consists of 167 amino acid residue including a 21 amino acid residue signal sequence and 146 amino acid residue mature protein sequence.</p> <p>Synonym: Leptin, Obese Protein, Obesity Factor, LEP, OB, OBS</p>
Molecular Weight:	16.1 kDa
UniProt:	P41159
Pathways:	JAK-STAT Signaling , AMPK Signaling , Hormone Transport , Peptide Hormone Metabolism , Hormone Activity , Negative Regulation of Hormone Secretion , Regulation of Carbohydrate Metabolic Process , Feeding Behaviour , Monocarboxylic Acid Catabolic Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>