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Datasheet for ABIN7520268 Leptin Protein (LEP)



Overview	
Quantity:	10 µg
Target:	Leptin (LEP)
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Purpose:	Active Recombinant Rat LEP Protein
Sequence:	VPIHKVQDDT KTLIKTIVTR INDISHTQSV SARQRVTGLD FIPGLHPILS LSKMDQTLAV YQQILTSLPS QNVLQIAHDL ENLRDLLHLL AFSKSCSLPQ TRGLQKPESL DGVLEASLYS TEVVALSRLQ GSLQDILQQL DLSPEC
Specificity:	Val22-Cys167
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg
Biological Activity Comment:	Measured by its binding ability in a functional ELISA.Immobilized Human LEPR at 5 μ g/mL (100 μ L/well) can bind Rat LEP with a linear range of 1-530 ng/mL.
Target Details	

Target:

Leptin (LEP)

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Target Details	
Alternative Name:	LEP (LEP Products)
Background:	Description: 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 metablic 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.
Gene ID:	25608
UniProt:	P50596
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

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

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