Datasheet for ABIN7320902

Leptin Protein (LEP)

1 Image

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Overview

Quantity:	50 µg
Target:	Leptin (LEP)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Mouse Leptin
Sequence:	Val22-Cys167
Characteristics:	Recombinant Mouse 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.

Target Details

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

Target Details

	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. Synonym: Leptin, Obese Protein, Obesity Factor, LEP, OB, OBS
Molecular Weight:	16.1 kDa
UniProt:	Q544U0
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

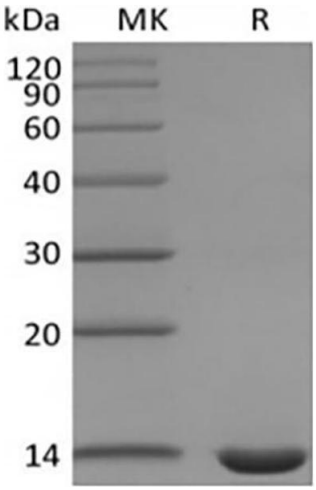
Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 300 mM NaCl, pH 7.5.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. 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.

Images



Western Blotting

Image 1.