

Mouse Leptin Protein

Cat #: PRP4011

Size: 500 µg/1 mg

Product Information

	Product Name: Mouse Leptin Protein		
REF	Catalog Number: PRP4011	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20 °C		Preparation method: <i>E. coli</i>
	Shipping: The product is shipped at ambient temperature.		

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.

Sequence: Recombinant Mouse Leptin is produced by our E.coli expression system and the target gene encoding Val22-Cys167 is expressed.

Protein length: The recombinant Leptin Protein consists of 146 amino acids with a Met in N terminal and predicts a molecular mass of 16 kDa.

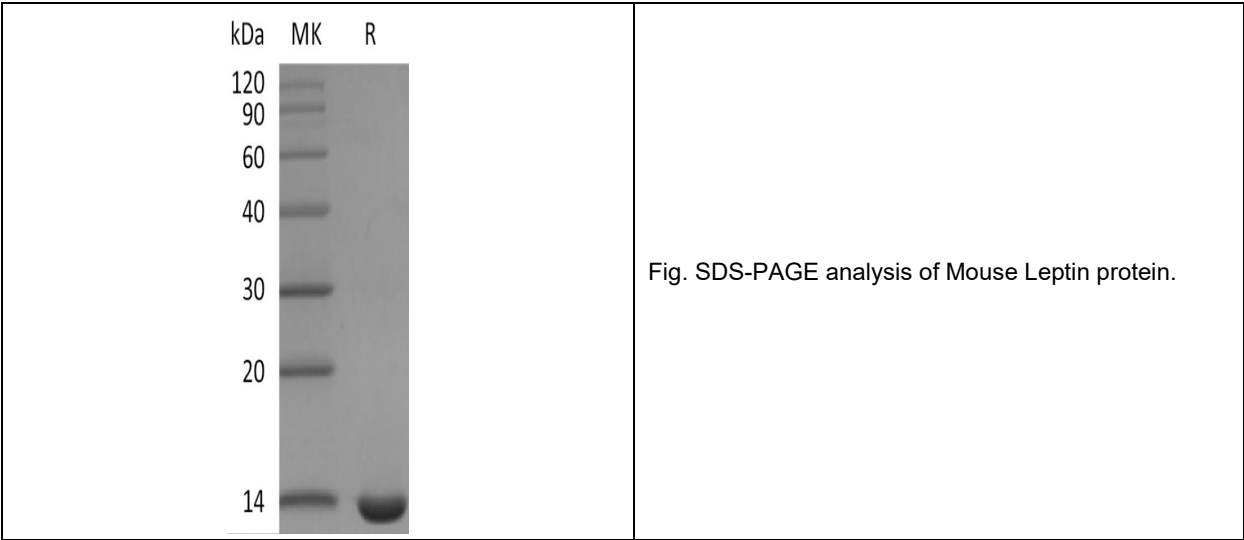
Biological Activity: Testing in progress.

Endotoxin: < 1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 300 mM NaCl, pH7.5.

Storage Instructions: Lyophilized recombinant Leptin protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Leptin protein using the buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



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