

Recombinant Mouse Leptin

Catalog Number: PKSM041419

Note: Centrifuge before opening to ensure complete recovery of vial contents.

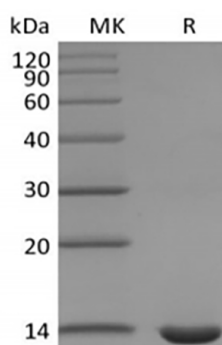
Description

Species	Mouse
Source	E.coli-derived Mouse Leptin protein Val22-Cys167
Calculated MW	16.1 kDa
Observed MW	14 kDa
Accession	Q544U0
Bio-activity	Immobilized Recombinant Mouse LEPR (C-10His)(PKSM041415) at 5µg/ml (100 µl/well) can bind Recombinant Mouse Leptin(PKSM041419): Biotinylated by NHS-biotin prior to testing.The ED ₅₀ of Recombinant Mouse Leptin(PKSM041419) is 1.16 ng/ml.

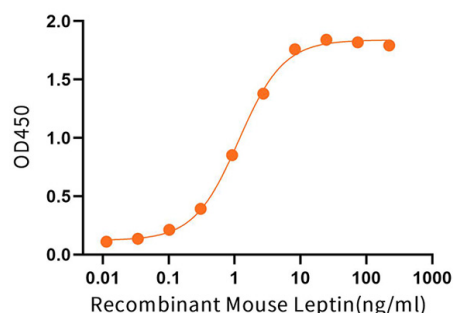
Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 300mM NaCl, pH7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data

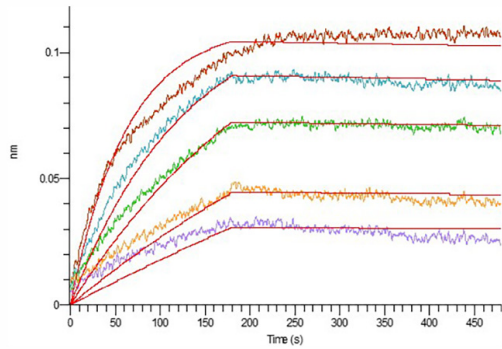


> 95 % as determined by reducing SDS-PAGE.



Immobilized Recombinant Mouse LEPR (C-10His) (PKSM041415) at 5µg/ml (100 µl/well) can bind Recombinant Mouse Leptin(PKSM041419): Biotinylated by NHS-biotin prior to testing.The ED₅₀ of Recombinant Mouse Leptin(PKSM041419) is 1.16 ng/ml.

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Loaded Recombinant Mouse LEPR (C-10His) (PKSM041415) on HIS1K Biosensor, can bind Recombinant Mouse Leptin(PKSM041419) with an affinity constant of 0.196 nM as determined in BLI assay.

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.

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