Recombinant Human Leptin/LEP Protein

Catalog No.: RP00028

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Sequence Information

Species
Human

Gene ID
3952

Swiss Prot
P41159

Tags
No tag

Synonyms
LEP,LEPD,OB,OBS,leptin

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
16.03 kDa

Observed MW
14 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 50mM Tris, 150mM NaCl, pH 8.0.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex 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% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Leptin is one of the most important hormones secreted by white adipocytes, and which plays a major role in the regulation of body weight. This protein, which acts through the leptin receptor, functions as part of a signaling pathway that can inhibit food intake and/or regulate energy expenditure to maintain constancy of the adipose mass. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in this protein and/or its regulatory regions cause severe obesity, and morbid obesity with hypogonadism. This protein has also been linked to type 2 diabetes mellitus development.

Basic Information

Description
Recombinant Human Leptin/LEP Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Val22-Cys167) of human Leptin (Accession #NP_000221.1).

Activity
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human Leptin at 2 μg/mL (100 μL/well) can bind Recombinant Human Leptin R/CD295 with a linear range of 1.22-261.45 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

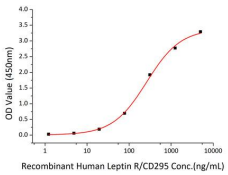
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

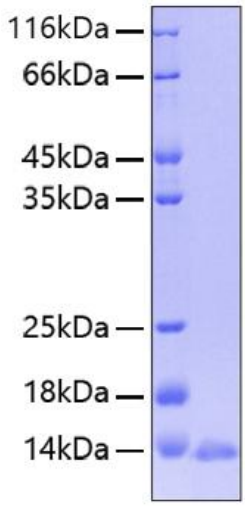
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Immobilized recombinant Human Leptin at 2μg/mL (100 μL/well) can bind recombinant Human Leptin R/CD295 with a linear range of 1.22-261.45 ng/mL.



Recombinant Human Leptin/LEP Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.