

Recombinant Equine Leptin (LEP), N-His

Cat. No.: AP9C985

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Equine Leptin (LEP), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 14.4 kDa. The purity is >95% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Equine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	14.4 kDa
Molecular Weight	18.0 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Target Information

Equine leptin is a hormone primarily secreted by adipose tissue, which plays a crucial role in regulating energy metabolism. It acts on the hypothalamus to suppress appetite and increase energy expenditure through thermogenesis. In horses, serum leptin levels are positively correlated with obesity, indicating its role in body weight regulation. Hyperleptinemia, along with hyperinsulinemia, may predict laminitis in ponies, highlighting its significance in equine metabolic health.

Protein	Equine Leptin (LEP)
Protein Synonym	OB; OBS; Obesity Homolog; Obesity Factor; Obese Protein
Gene ID	100034042
UniProt ID	Q9TU09

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.