

# Mouse Leptin Protein

Cat. No. LEP-ME201

## Description

<b>Source</b>	Recombinant Mouse Leptin Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Val22-Cys167.
<b>Accession</b>	P41160
<b>Molecular Weight</b>	The protein has a predicted MW of 42.76 kDa. Due to glycosylation, the protein migrates to 45-50 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

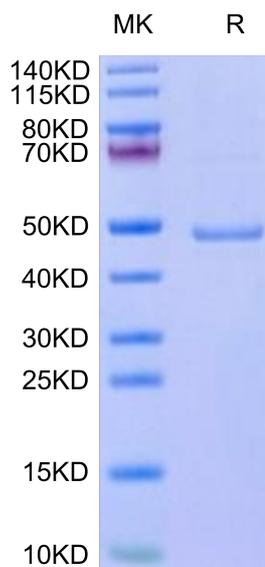
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Leptin has key roles in the regulation of energy balance, body weight, metabolism, and endocrine function. Leptin levels are undetectable or very low in patients with lipodystrophy, hypothalamic amenorrhea, and congenital leptin deficiency (CLD) due to mutations in the leptin gene.

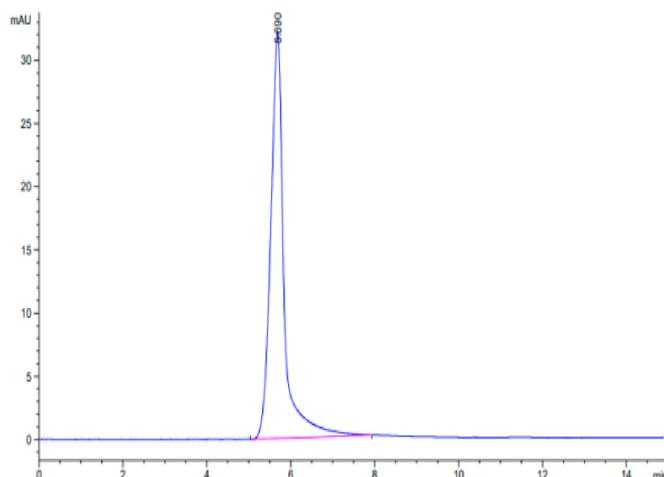
## Assay Data

### Bis-Tris PAGE



Mouse Leptin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Mouse Leptin is greater than 95% as determined by SEC-HPLC.