

Lep Recombinant Rat Leptin

Catalog No.	CRL302A CRL302B CRL302C	Quantity:	200 µg 1.0 mg 5 mg
Alternate Names:	OB Protein, Obesity Protein, OBS, Obesity factor.		
Description:	Leptin is a protein that is thought to have a critical role in the physiologic regulation of body weight via its capacity to inhibit food intake and stimulate energy expenditure. Leptin also has thermogenic actions and regulates enzymes of fatty acid oxidation. Severe hereditary obesity in rodents and humans can be caused by defects in leptin production. These functions include the regulation of hematopoiesis, angiogenesis, wound healing, inflammation, and immune responses.		
UniProt ID:	P50596		
Gene ID:	25608		
Source:	<i>E. coli</i>		
Molecular Weight:	16.3 kDa (147 aa) monomer		
Formulation:	Lyophilized from a sterile filtered solution containing 0.1% TFA.		
Purity:	≥ 95.0% by Reducing and Non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1 EU/µg protein by kinetic LAL analysis.		
Amino Acid Sequence:	MVPIHKVQDD TKTLIKTIVT RINDISHTQS VSARQRVTGL DFIPGLHPIL SLSKMDQTLA VYQQILTSLP SQNVLQIAHD LENLRDLLHL LAFSKSCSLP QTRGLQKPES LDGVLEASLY STEVVALSRL QGSLQDILQQ LDLSPEC		
Reconstitution:	Centrifuge vial prior to opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 1 month or prepare working aliquots and store at -20°C to -80°C for up to 3 months. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. Avoid repeated freeze-thaw cycles.		

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