

Datasheet: PRP33

Description:	RECOMBINANT RAT LEPTIN
Name:	LEPTIN
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit

www.abdserotec.com/protocols.

hypothalamus.

Functional Assays						
Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in						
and an analysis of the second						

Not Determined

Suggested Dilution

such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

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Target Species	Rat	
Product Form	Purified recombinant protein - lyophilised	
Reconstitution	Reconstitute with 1ml distilled water	
	Care should be taken during reconstitution as the protein may apperecommend that the vial is gently mixed after reconstitution.	ar as a film at the bottom of the vial. AbD Ser
Preparation	Purified recombinant leptin expressd in <i>E.coli</i>	
Preservative Stabilisers	None present	
Endotoxin Level	<1EU/ug	
Approx. Protein Concentrations	1.0mg/ml	
External Database	UniProt:	
Links	P50596 LEP_RAT Related reagents	
	Entrez Gene:	
	25608 Lep Related reagents	
Synonyms	Ob	

Yes

Product Information Leptin is a major adipose-derived hormone and member of the leptin family, which plays a key role in appetite control and the regulation of energy expenditure, and signals through binding to the obesity receptor (OB-R) in the

> Leptin is a recognised marker of obesity and human studies have shown a correlation between circulating levels of leptin and body fat mass, and defects in leptin production result in severe obesity. Regulators of leptin expression include insulin, cortisol, cAMP and thiazolidinediones.

Molecular Weight	16.2kD (147 amino acid residues)			
Activity	Determined by an <i>in vivo</i> assay using the ob/ob mouse obesity model and NZO. Both strains of mice were treated via intraperitoneal injection once daily at a dose of 5µg leptin/gm of body weight for 7 days. Significant effects on body weight, food consumption, and plasma glucose levels were observed to saline-treated controls.			
Purity	>98% by SDS PAGE and HPLC analysis			
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.			
Shelf Life	3 months from date of reconstitution.			
Health And Safety Information	Material Safety Datasheet Documentation #10268 available at: http://www.abdserotec.com/uploads/MSDS/10268.pdf			
Regulatory	For research purposes only			

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