

Datasheet: PHP198

Description:	RECOMBINANT HUMAN 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.

	Yes	No	Not Determined	Suggested Dilution
ELISA	•			0.2 - 0.4ng/well
Western Blotting	-			1.5 - 3.0ng/lane
Functional Assays	-			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in 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.

. AbD Serotec bovine serum

	production does in their officers doing appropriate negative positive controls.	
Target Species	Human	
Product Form	Purified recombinant protein - lyophilised	
Reconstitution	Reconstitute with 1.0 ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 0.1% abumin (BSA) is recommended.	
Preparation	Purified recombinant leptin expressed in <i>E.coli</i> . Sterile filtered through a 0.2 micron filter.	
Buffer Solution	Lyophilized with 0.1% TFA	
Preservative Stabilisers	None present	
Endotoxin Level	<1EU/ug	
Approx. Protein Concentrations	1.0 mg/ml after reconstitution	
External Database Links	UniProt: P41159 LEP_HUMAN Related reagents	
	Entrez Gene: 3952 LEP Related reagents	
Synonyms	OB, OBS	

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.

Secreted leptin associates with proteins within the bloodstream and is transported to the brain, where it inhibits or up-regulates the activity of neuropeptides such as neuropeptide Y (NPY) and alpha-melanocyte-stimulating hormone respectively. Leptin is a recognised marker of obesity, with 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	16.0kD (147 amino acid residues).
Activity	PHP198 is biologically active in the <i>ob/ob</i> mouse obesity model. The <i>ob/ob</i> mice were treated via intraperitoneal injection once daily at a dose of 5 µg 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.
ELISA	Recombinant human leptin may be use as a standard for ELISA applications with either a <u>purified human leptin</u> <u>antibody</u> (AHP1616) or a <u>biotinylated human leptin antibody</u> (AHP1616B)
Western Blotting	Recombinant human leptin may be used as the positive control for Western Blotting applications with either a <u>purified</u> <u>human leptin antibody</u> (AHP1616) or a <u>biotinylated human leptin antibody</u> (AHP1616B)
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 #10527 available at: http://www.abdserotec.com/uploads/MSDS/10527.pdf
Regulatory	For research purposes only

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