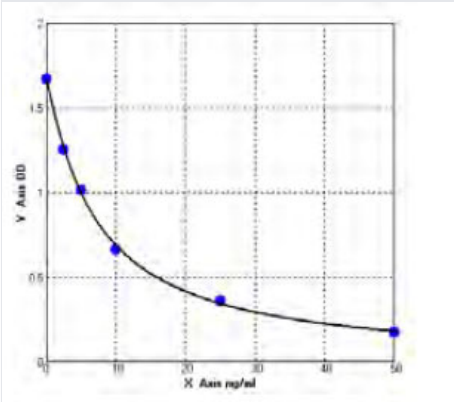
Leptin ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Leptin, ELISA Kit
Full Product Name	Rat Leptin ELISA Kit
Product Gene Name	Leptin elisa kit
Species Reactivity	Rat
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of LEP. No significant cross-reactivity or interference between LEP and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between LEP and all the analogues, therefore, cross reaction may still exist in some cases.
Preparation and Storage	Store all reagents at 2-8 degree C.
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for Leptin elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for Leptin elisa kit	Intended Uses: This LEP ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat LEP. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: LEP ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-LEP antibody and an LEP-HRP conjugate. The assay sample and buffer are incubated together with LEP-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the LEP concentration since LEP from samples and LEP-HRP conjugate compete for the anti-LEP antibody binding site. Since the number of sites is limited, as more sites are occupied by LEP from the sample, fewer sites are left to bind LEP-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The LEP concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of Leptin elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Leptin purchase	MBS730855 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Leptin, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing Leptin. The ELISA analytical biochemical technique of the MBS730855 kit is based on Leptin antibody-Leptin antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Leptin antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Leptin. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of Leptin elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Leptin. It may not necessarily be applicable to this product.

NCBI GI #	148233267
NCBI GeneID	734226
NCBI Accession #	NP_001089183.1
GenBank Nucleotide #	NM_001095714.1
NCBI Official Full Name	leptin
NCBI Official Synonym Full Names	leptin<
NCBI Official Symbol	lep
NCBI Official Synonym Symbols	ob; xlep
Protein Family	Leptin
NCBI Protein Information	leptin; obesity homolog
Research Articles on Leptin	**1.** Leptin can influence limb growth and differentiation during early development. (leptin)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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