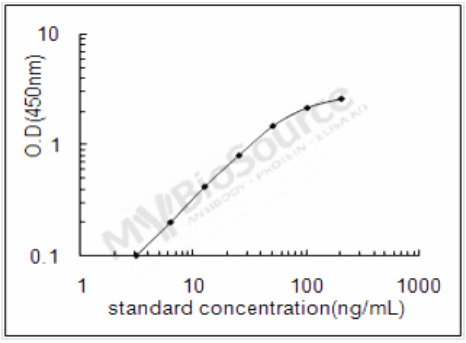
Prolactin (PRL) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Prolactin (Prl), ELISA Kit
Full Product Name	Rat Prolactin ELISA Kit
Product Gene Name	Prl elisa kit
Product Synonym Names	Prolactin; PRL; Prl
Species Reactivity	Rat
Assay Type	Sandwich
Detection Range	3.12-200 ng/mL
Sensitivity	1.69 ng/mL
Specificity	This assay recognizes recombinant and natural rat PRL. No significant cross-reactivity or interference was observed.
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	25,753 Da
3D Structure	ModBase 3D Structure for P01237
Intra-Assay CV	<=5.2%
Inter-Assay CV	<=8.1%
Recovery	90%
Related Product Information for Prl elisa kit	Intended Uses: This immunoassay kit allows for the in vitro quantitative determination of rat PRL concentrations in serum, Plasma, tissue homogenates and Cell culture supernates and Other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PRL. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for PRL and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. Only those wells that contain PRL, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of PRL in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of Prl 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 Prl purchase	MBS2880359 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Prolactin (Prl) 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 Prl. The ELISA analytical biochemical technique of the MBS2880359 kit is based on Prl antibody-Prl antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Prl antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Prl. 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 Prl elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	6981404
NCBI GeneID	24683
NCBI Accession #	NP_036761.1
UniProt Primary Accession #	P01237
UniProt Secondary Accession #	P70520
UniProt Related Accession #	P01237
GenBank Nucleotide #	NM_012629.1
NCBI Official Full Name	prolactin
NCBI Official Synonym Full Names	prolactin
NCBI Official Symbol	Prl
NCBI Official Synonym Symbols	Gha1; PRLB; Prol; PRLSD1; Prl1a1; RNPROL; RATPRLSD1
UniProt Protein Name	Prolactin
Protein Family	Prolactin
UniProt Gene Name	Prl
UniProt Synonym Gene Names	PRL
UniProt Entry Name	PRL_RAT
NCBI Protein Information	prolactin
NCBI Summary for Prl	induces lactation; may facilitate decidual growth and placentation; promotes prostate epithelial cell proliferation [RGD, Feb 2006]

UniProt Comments for Prl	prolactin: Prolactin acts primarily on the mammary gland by promoting lactation. Belongs to the somatotropin/prolactin family. Protein type: Secreted; Cytokine; Motility/polarity/chemotaxis; Secreted, signal peptide Cellular Component: extracellular region; secretory granule Molecular Function: hormone activity; prolactin receptor binding Biological Process: cellular response to hormone stimulus; circadian rhythm; lactation; mammary gland development; maternal behavior; multicellular organismal response to stress; ovulation cycle; parturition; positive regulation of cell proliferation; positive regulation of epithelial cell proliferation; positive regulation of JAK-STAT cascade; regulation of JAK-STAT cascade; regulation of multicellular organism growth; regulation of ossification; response to drug; response to estradiol stimulus; response to ethanol; response to lipopolysaccharide; response to nutrient; response to organic cyclic substance; STAT protein nuclear translocation
Research Articles on Prl	**1.** PRL is unchanged in a rat model of panic evoked by dorsal periaqueductal gray stimulation.
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