

Rat Prolactin receptor (PRLR) ELISA Kit

Catalog No: #EK8215



Package Size: #EK8215-1 48T #EK8215-2 96T

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Description

Product Name	Rat Prolactin receptor (PRLR) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	hPRLrI; delta 4-SF1b truncated prolactin receptor delta 4-delta 7/11 truncated prolactin receptor hPRL receptor prolactin receptor delta 7/11 secreted prolactin binding protein
Accession No.	P14787
Uniprot	P14787
GenID	100009046;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:7.8 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PRLR in samples. An antibody specific for PRLR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRLR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRLR is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PRLR bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The prolactin receptorencoded by a gene on Chromosome 5p13-14interacts with the prolactin molecule as a transmembrane receptor.The 5-prime-untranslated region of the PRLR gene contains 2 alternative first exons: E13, the human counterpart of the rat and mouse E13, and a novel human type of alternative first exon termed E1N. The 5-prime-untranslated region also contains a common noncoding exon 2 and part of exon 3, which contains the translation initiation codon. The E13 and E1N exons are within 800 basepairs of each other. These 2 exons are expressed in human breast tissue, breast cancer cells, gonads, and liver. Overall, the transcript containing E13 is prevalent in most tissues. The PRLR gene product is encoded by exons 3-10, of which exon 10 encodes most of the intracellular domain.

Note: This product is for in vitro research use only