

Bovine Prolactin-releasing peptide (PRLH) ELISA Kit

Catalog No: #EK8227



Package Size: #EK8227-1 48T #EK8227-2 96T

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Description

Product Name	Bovine Prolactin-releasing peptide (PRLH) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	PRH; PRRP; preprolactin-releasing peptide
Accession No.	P81264
Uniprot	P81264
GeneID	286856;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:Request Information

Sensitivity:Request Information

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 PRLH in samples. An antibody specific for PRLH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRLH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRLH 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 PRLH bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PRH mRNA was expressed in all 5 normal pituitary glands examined. In contrast, PRH mRNA was detected in only 5 of 11 human prolactinomas. All 5 prolactinomas expressing PRH were responsive to dopamine agonist treatment, whereas PRH-negative prolactinomas were non- or partially responsive.

PRH mRNA was also detected in 6 of 13 GH-secreting tumors and in 5 of 10 clinically nonfunctioning tumors investigated. PRH receptor mRNA was found in all the normal and neoplastic human pituitary samples studied. The authors concluded that the production of PRH and its receptor by normal and neoplastic pituitary tissue raises the question of whether it may regulate prolactin production in an autocrine/paracrine manner in pituitary tissue.

Note: This product is for in vitro research use only