

Horse Beta-Endorphin (β -EP) ELISA Kit

Catalog No: #EK11698



Package Size: #EK11698-1 48T #EK11698-2 96T

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Description

Product Name	Horse Beta-Endorphin (β -EP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Horse (Equus caballus; Equine)
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:62.5-4000 pg/mL

Sensitivity:35 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 μ L

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 B-EP in samples. An antibody specific for B-EP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyB-EP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for B-EP 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 B-EP bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Beta-endorphin is an endogenous opioid peptide neurotransmitter found in the neurons of both the central and peripheral nervous system.**Sequence:** "Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr Lys Lys Gly Glu". β -endorphin is a peptide, 31 amino acids long, resulting from processing of the precursor proopiomelanocortin (POMC). (Note, POMC also gives rise to other peptide hormones, including ACTH , as well α - and γ -MSH, resulting from intracellular processing by internal enzymes known as prohormone convertases.) β -endorphin is found in neurons of the hypothalamus, as well as the pituitary gland.It is an agonist of the opioid receptors, with evidence suggesting it serves as the endogenous ligand of the μ -opioid receptor, the same receptor to which the chemicals extracted from opium, such as morphine and codeine, have their analgesic and addictive effects.

Note: This product is for in vitro research use only