

Bovine Beta-Endorphin (bEP) ELISA Kit | bEP elisa kit

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CATALOG #
AAA129594

REACTIVITY
Bovine

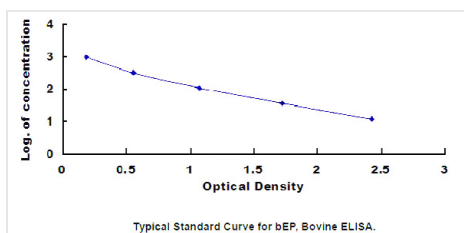
PRODUCT SYNONYMS

Beta-Endorphin (bEP); Bovine Beta-Endorphin (bEP) ELISA Kit; b-EP; bEP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Specificity	This assay has high sensitivity and excellent specificity for detection of bEP. No significant cross-reactivity or interference between bEP and analogues was observed.
Sequence Length	31
Assay Type	Competitive Inhibition
Samples	Serum, Plasma, Cerebrospinal fluid and other biological fluids
Detection Range	12.35-1,000pg/mL
Sensitivity	4.47pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level bEP were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level bEP were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for bEP elisa kit	Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of bEP in bovine serum, plasma, cerebrospinal fluid and other biological fluids. Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to bEP has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled bEP and unlabeled bEP (Standards or samples) with the pre-coated antibody specific to bEP. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of bEP in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of bEP in the sample.
Product Categories/Family for bEP elisa kit	Signal transduction; Endocrinology; Neuroscience; Hormone metabolism
References	Identification of chronic stress biomarkers in dairy cows; Animal; 2022 May;16(5):100502.; PMID: 35429795; C Grelet; Walloon Agricultural Research Center (CRA-W), 5030 Gembloux, Belgium.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119332
Molecular Weight	3,438 Da
NCBI Official Full Name	Beta-endorphin
UniProt Protein Name	Beta-endorphin
UniProt Gene Name	POMC
UniProt Entry Name	COLI_CAMDR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/bovine-ovine-elisa-kits/beta-endorphin-bep/129594>