

## Human Beta-Endorphin (bEP) ELISA Kit | bEP elisa kit

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CATALOG #  
**AAA182097**

REACTIVITY  
**Human**

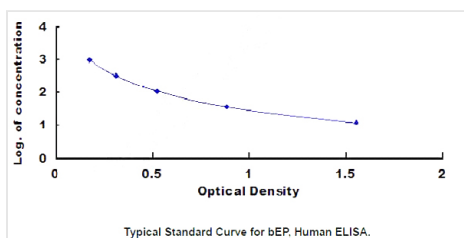
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Samples                 | Serum, plasma, cerebrospinal fluid and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Detection Range         | 12.35-1,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sensitivity             | < 5.11pg/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.<br>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

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Related Product Information for bEP elisa kit | <p>Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of bEP in human serum, plasma, cerebrospinal fluid and other biological fluids.</p> <p>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.</p> |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                         |                |
|-------------------------|----------------|
| NCBI GI #               | 119332         |
| UniProt Accession #     | P01203         |
| Molecular Weight        | 3,438 Da       |
| NCBI Official Full Name | Beta-endorphin |
| UniProt Protein Name    | Beta-endorphin |
| UniProt Gene Name       | POMC           |

**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://www.aaabiotech.com/human-elisa-kits/beta-endorphin-bep/182097>