

Human Beta-endorphin ELISA Kit | betaEP elisa kit

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CATALOG #
AAA99782

REACTIVITY
Human

PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of beta-CTx. No significant cross-reactivity or interference between beta-CTx and analogues is observed.
Sequence Length	31
Assay Type	Competitive ELISA, Coated with Antigen
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level beta-CTx were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level beta-CTx were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a β EP ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	15.625	31.25	62.5	125	250	500	1000
Y	OD450	2.045	1.044	0.811	0.569	0.379	0.258	0.196	0.155

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for betaEP elisa kit

Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been pre-coated with beta-CTx. During the reaction, beta-CTx in the sample or standard competes with a fixed amount of beta-CTx on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to beta-CTx. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. The concentration of beta-CTx in the samples is then determined by comparing the O D of the samples to the standard curve.

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/betaep-human-elisa-kits/beta-endorphin/99782>