

Human Adrenocorticotrophic Hormone (ACTH) ELISA Kit | ACTH elisa kit

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CATALOG #
AAA331086

REACTIVITY
Human

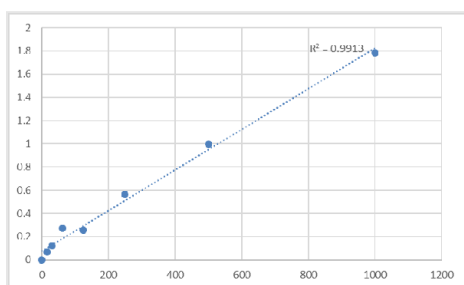
PRODUCT SYNONYMS

Adrenocorticotrophic Hormone (ACTH); Human Adrenocorticotrophic Hormone (ACTH) ELISA Kit; ACTH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Adrenocorticotrophic hormone (ACTH) ELISA Kit has high sensitivity and excellent specificity for detection of Human ACTH. No significant cross-reactivity or interference between Human ACTH and analogues was observed.
Sequence Length	41
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Adrenocorticotrophic hormone (ACTH) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACTH elisa kit	Description: This Human Adrenocorticotrophic hormone (ACTH) ELISA Kit employs a two-site sandwich ELISA to quantitate ACTH in samples. An antibody specific for ACTH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACTH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACTH 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 ACTH bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: ACTH (Adrenocorticotrophic hormone) or corticotropin is a 39-amino acid peptide hormone (MW=4500) secreted by the pituitary to regulate the production of steroid hormones by the adrenal cortex. ACTH secretion from the anterior pituitary is controlled by both a classical negative feedback control mechanism and CNS-stress mediated control system. Various types of stress or pain perceived in higher levels of the brain modulate secretion of the hypothalamic neurosecretory hormone, corticotropin releasing hormone (CRH), a 41-amino acid peptide. CRH stimulates pituitary ACTH secretion. The second peptide that modulates ACTH secretion is vasopressin (AVP). AVP secretion is also stimulated by stress and acts synergistically with CRH to increase ACTH secretion in the pituitary portal circulation. ACTH increases the synthesis and release of all adrenal steroids, aldosterone, cortisol and adrenal androgens.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	490074
NCBI Official Full Name	ACTH, partial

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/adrenocorticotrophic-hormone-acth/331086>