ACTH (Human) ELISA Kit

Catalog # KA0916 Size 1 Kit

Specification

Product Description	ACTH (Human) ELISA Kit is used for the quantitative determination of ACTH (Adrenocorticotropic H ormone) in human plasma.
Suitable Sample	Plasma
Sample Volume	200 uL
Label	Biotin-conjugate
Detection Method	Colorimetric
Assay Type	Quantitative
Limit of Detection	1 pg/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Quantification

Gene Info — POMC

Entrez GeneID	5443
Gene Name	POMC
Gene Alias	ACTH, CLIP, LPH, MSH, NPP, POC

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Gene Description	proopiomelanocortin
Omim ID	176830 609830
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a polypeptide hormone precursor that undergoes extensive, tissue-specific, post-translational processing via cleavage by subtilisin-like enzymes known as prohormone convertases. There are eight potential cleavage sites within the polypeptide precursor and, depending on tissue type and the available convertases, processing may yield as many as ten biologically active peptides involved in diverse cellular functions. The encoded protein is synthesized mainly in corticotroph cells of the anterior pituitary where four cleavage sites are used; adrenocorticotrophin, essential for normal steroidogenesis and the maintenance of normal adrenal weight, and lipotropin beta are the major end products. In other tissues, including the hypothalamus, placenta, and epithelium, all cleavage sites may be used, giving rise to peptides with roles in pain and energy homeostasis, melanocyte stimulation, and immune modulation. These include several distinct melanotropins, lipotropins, and endorphins that are contained within the adrenocorticotrophin and beta-lipotropin peptides. Mutations in this gene have been associated with early onset obesity, adrenal insufficiency, and red hair pigmentation. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq
Other Designations	OTTHUMP00000119991|adrenocorticotropic hormone|adrenocorticotropin|alpha-MSH|alpha-melanocyte-stimulating hormone|beta-LPH|beta-MSH|beta-endorphin|beta-melanocyte-stimulating hormone|corticotropin-like intermediary peptide|gamma-LPH|gamma-MSH|lipotropin b

Publication Reference

- Impact of Menstrual Function on Hormonal Response to Repeated Bouts of Intense Exercise.

  Anna K Melin, Christian Ritz, Jens Faber, Sven Skouby, Jessica Pingel, Jorunn Sundgot-Borgen, Anders Sjodin, Asa B Tornberg

  Front Physiol 2019 Aug; 10:942.

- Acute hydrocortisone administration reduces cardiovagal baroreflex sensitivity and heart rate variability in young men.

  Adlan AM, Veldhuijzen van Zanten JJCS, Lip GYH, Paton JFR, Kitas GD, Fisher JP.

  The Journal of Physiology 2018 Oct; 596(20):4847.

  Application: Quant, Human, Human plasma

- Combined therapy of pulsed radiofrequency and nerve block in postherpetic neuralgia patients: a randomized clinical trial.

  Li D, Sun G, Sun H, Wang Y, Wang Z, Yang J.

  PeerJ 2018 Jun; 6:e4852.

  Application: Quant, Human, Human plasma

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Pathway

- Adipocytokine signaling pathway
- Melanogenesis
- Neuroactive ligand-receptor interaction

Disease

- Adenocarcinoma
- Alcoholism
- Anorexia Nervosa
- Asthma
- Atherosclerosis
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Body Weight
- Breast Neoplasms
- Bulimia
- Carcinoma
- Cardiovascular Diseases
- Chronic Disease
- Colon cancer
- Colonic Neoplasms
- Connective Tissue Diseases
- Diabetes Mellitus
- Disease Models
- Disease Susceptibility
- Drug Toxicity

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- Edema
- Esophageal Neoplasms
- Fatigue Syndrome
- Fetal Diseases
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Hyperparathyroidism
- Infection
- Inflammation
- Lymphoma
- Malignant melanoma
- Melanoma
- Mental Disorders
- Metabolic Syndrome X
- Microsatellite Instability
- Musculoskeletal Diseases
- NARP
- Obesity
- Osteoporosis
- Ovarian Failure
- Pain
- Parkinson disease
- Polycystic Ovary Syndrome
- Pregnancy Complications
- Premature Birth
- Prostate cancer

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- Prostatic Neoplasms
- Psychiatric Status Rating Scales
- Psychophysiologic Disorders
- Puberty
- Skin Diseases
- Skin Neoplasms
- Somatoform Disorders
- Substance-Related Disorders
- Thinness
- Thrombophilia
- Tobacco Use Disorder
- Translocation
- Weight Loss

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