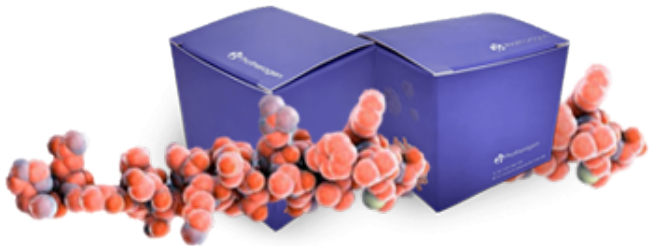
Protheragen
Obesity



Mouse adrenocorticotropic hormone (ACTH) ELISA kit (5-600 ng/L)

Cat. No.:	OB0525WXX-185
Assay Type:	Quantitative sandwich ELISA
Target Species:	Mouse
Assay Target:	ACTH
Size:	48T; 96T

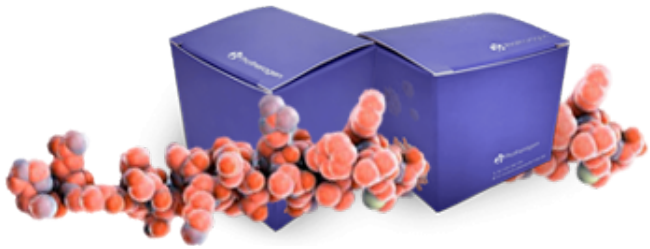
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Mouse adrenocorticotropic hormone (ACTH) ELISA kit (5-600 ng/L) is a ready-to-us e ELISA kit for analyzing mouse ACTH levels with a detection range of 5-600 ng/L and a sensitivity of 3.13 ng/L.
Assay Principle	The plates are pre-coated with mouse ACTH antibody. ACTH added to the sample bin ds to the antibody coated on the wells. Biotinylated mouse ACTH antibody is then added and binds to ACTH in the sample. Streptavidin-HRP is then added and binds to the biotinylated ACTH antibody. After incubation, unbound streptavidin-HRP i s washed out. The substrate solution is then added, and the color is developed i n proportion to the mouse ACTH content. The reaction is terminated by the additi on of an acidic termination solution, and the absorbance is measured at 450 nm.
Background	ACTH stimulates the adrenal glands to release cortisol. Defects in POMC may be a ssociated with susceptibility to obesity (OBESITY). It is a condition characteri zed by an increase in body weight beyond the limitations of skeletal and physica l requirements, as a result of excessive accumulation of body fat. Defects in PO MC are the cause of pro-opiomelanocortinin deficiency (POMCD). Affected individu als present early-onset obesity, adrenal insufficiency, and red hair.
Synonyms	ACTH; Corticotropin; Adrenocorticotropin; Adrenocorticotropic hormone; Pomc1; Po mc-1; Beta-LPH; AlphaMSH; beta-MSH; Gamma-LPH; Alpha-MSH; Gamma-MSH
Formula Weight	26,707 Da

Address: 101-4 Colin Dr, Holbrook, NY 11741, USA
Phone: 1-631-506-1393
info@obesityscientific.com

Protheragen
Obesity



Applications	Mouse adrenocorticotropic hormone (ACTH) ELISA kit (5-600 ng/L) is designed for the *in vitro* quantitative analysis of ACTH levels in mouse serum, plasma, cell culture supernates, cell lysates, and tissue homogenate samples.
Research Area	Hormone research; Metabolites; Signaling pathway; Glucose homeostasis; Regulatio n of appetite; Obesity

Specification

Sample Type	Serum; Plasma; Cell culture supernates; Cell lysates; Tissue homogenates
Detection Range	5-600 ng/L
Sensitivity	3.13 ng/L
Precision (Intra-assay)	CV<8%
Precision (Inter-assay)	CV<10%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Stability	6 Months
Storage	Store at 2-8°C.

Address: 101-4 Colin Dr, Holbrook, NY 11741, USA
Phone: 1-631-506-1393
info@obesityscientific.com