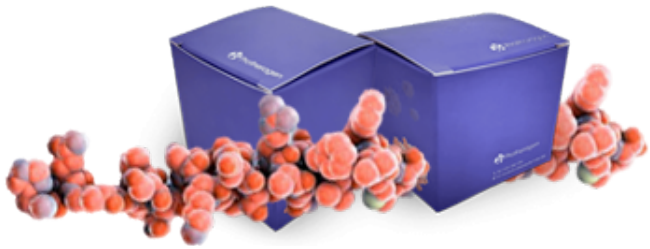
Protheragen
Obesity



Mouse melanin-concentrating hormone (MCH) ELISA kit (6.25-200 pg/mL)

Cat. No.:	0126WXX-1021
Assay Type:	Quantitative sandwich ELISA
Target Species:	Mouse
Assay Target:	MCH
Size:	48T; 96T

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

Product Overview

Description	Mouse melanin-concentrating hormone (MCH) ELISA kit (6.25-200 pg/mL) is an ELISA - based *in vitro* research tool designed specifically for the quantitative detection of MCH in mice samples with a range of 6.25-200 pg/mL and a minimum de tectable dose (sensitivity) of 1.0 pg/mL. The kit is highly sensitive and easy t o use.
Assay Principle	The ELISA analytical biochemical technique is based on MCH antibody-MCH antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MCH antigen targets in samples.
Background	MCH is a cyclic neuropeptide primarily synthesized and secreted in neurons of th e lateral hypothalamus and thalamus, exerting its effects through its receptors MCH1R and MCH2R. MCH plays a major role as an orexigenic (appetite-stimulating) signal in appetite regulation. Its association with obesity research is highly e vident: in animal models, MCH injection or overexpression leads to increased foo d intake and excessive weight gain; Conversely, inhibiting MCH signaling or knoc king out its receptor (MCH1R) results in leaner animals, indicating MCH is a pot ent central nervous system signal for energy storage and hunger resistance, maki ng it a critical target for anti-obesity drug development.
Synonyms	PMCH
Formula Weight	18,679 Da

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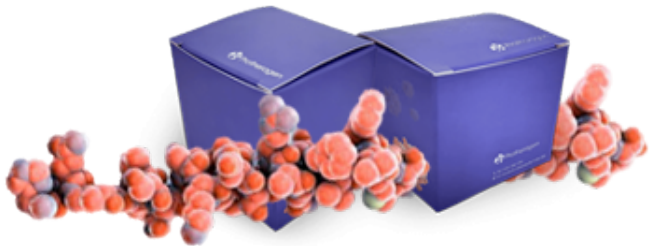

Applications	Mouse melanin-concentrating hormone (MCH) ELISA kit (6.25-200 pg/mL) is used to quantify MCH in serum, plasma, whole blood, tissue, saliva, urine, feces, and ot her fluids of mouse, providing data to support research in a wide range of areas , including appetite regulation, obesity, *etc*.
Research Area	Appetite regulation; Obesity

Specification

Sample Type	Serum; Plasma; Whole blood; Other fluid; Tissue; Saliva; Urine; Feces
Detection Range	6.25-200 pg/mL
Sensitivity	1.0 pg/mL
Precision (Intra-assay)	CV<15%
Precision (Inter-assay)	CV<15%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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