

Mouse Melanocortin receptor 5 (MC5R) ELISA Kit

Catalog No: #EK9829



Package Size: #EK9829-1 48T #EK9829-2 96T

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Description

Product Name	Mouse Melanocortin receptor 5 (MC5R) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	Melanocortin receptor 5
Accession No.	P41149
Uniprot	P41149
GeneID	17203;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:7.8 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MC5R in samples. An antibody specific for MC5R has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMC5R present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MC5R 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 MC5R bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Melanocortin receptor 5 is located on the chromosome 18 in the human genome. when the melanocortin 5 receptor was disrupted in transgenic mice, it induced disruption of their exocrine glands and resulted in decreased production of sebum. Melanocortin-1 receptor (MC1R) is found in melanocytes and appears to be the alpha-melanocyte stimulating hormone (MSH) receptor. MC2R is localized to adrenocortical cells and is thus thought to be the ACTH receptor. MC3R and MC4R are localized primarily to sites in the brain. Each receptor has a unique pattern of affinity for the various melanocortin ligands. Gantz et al. (1994) reported the molecular cloning of a novel gene encoding a fifth member of the MCR family in the mouse. Chowdhary et al. (1995) mapped the human MC5R gene to 18p11.2 by fluorescence in situ hybridization.

Note: This product is for in vitro research use only