

Melanin Concentrating Hormone, rat
Synthetic Peptide
Catalog # SP2587b**Specification**

Melanin Concentrating Hormone, rat - Product InformationPrimary Accession
Sequence[P14200](#)
NH2-DFDMLRCMLGRVYRPCWQV-COOH**Melanin Concentrating Hormone, rat - Additional Information****Gene ID** 24659**Other Names**

Pro-MCH, Neuropeptide-glycine-glutamic acid, NGE, Neuropeptide G-E, Neuropeptide-glutamic acid-isoleucine, NEI, Neuropeptide E-I, Melanin-concentrating hormone, MCH, Pmch, Mch

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Melanin Concentrating Hormone, rat - Protein Information**Name** Pmch**Synonyms** Mch**Function**

MCH inhibits ACTH secretion at the end of the light on period which corresponds to the peak of the circadian rhythm in ACTH. Inhibits also stress induced ACTH release during the light off period of the cycle. Involved as a neurotransmitter or neuromodulator in a broad array of neuronal functions. Stimulates sexual behavior when injected into the ventromedial nucleus, this effect is antagonized by NEI. In the medial preoptic area, stimulates anxiety and sexual behavior. Antagonizes inhibitory effect of melanotropin alpha on exploration behavior.

Cellular Location

Secreted.

Tissue Location

MCH is present in all regions of the brain and in neurointermediate lobe of the pituitary gland, with highest concentrations in the hypothalamus. Also expressed to a much lesser extent in stomach, lamina propria of both duodenum and colon, ovary, thymus, pancreas, adrenal gland and testis

(spermatogonia, early spermatocytes and Sertoli cells). Weak expression in heart and lung The other peptides are expressed at least in Sertoli cells, nei being also expressed in brain, stomach and proximal duodenum. In brain exclusively mature mch and nei peptides are present. In peripheral tissues a large product, encompassing the NEI and MCH domains of the precursor, is found predominantly. At low levels fully processed MCH and NEI peptides are present in gut. No expression in peripheral blood

Melanin Concentrating Hormone, rat - Images