

Recombinant Human PMCH, His-tagged

Cat. No. PMCH-172H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Pro-MCH/PMCH is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ile22-Val165) of Human PMCH fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	22-165 a.a.
Description	Melanin-Concentrating Hormone (MCH) is a cyclic neuropeptide that belongs to the melanin-concentrating hormone family. It is isolated initially from salmon pituitary gland and later from rat hypothalamus. MCH is predominantly expressed in lateral hypothalamus, it is also detected in pallidum, neocortex and cerebellum. In mammals, MCH perikarya are confined largely to the lateral hypothalamus and zona incerta area with extensive neuronal projections throughout the brain, including the neurohypophysis. The anatomic distribution suggests MCH may act as a neurotransmitter or neuromodulator in a broad array of neuronal functions directed toward the regulation of goal-directed behavior, such as food intake, and general arousal. It may also play a role in spermatocyte differentiation.
Form	Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.4
AA Sequence	ILLSASKSIRNLDDDMVFNTFRLGKGFQKEDTAEKSVIAPSLEQYKNDESSFMNEEE NKVSKNTG SKHNFLNHGLPLNLAIKPYLALKGSAFPAENGVQNTTESTQEKREIGDE

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	ENSAKFPIGRRDFDML RCMLGRVYRPCWQVVDHHHHHH
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	PMCH pro-melanin-concentrating hormone [Homo sapiens]
Official Symbol	PMCH
Synonyms	PMCH; pro-melanin-concentrating hormone; pro-MCH; MCH;
Gene ID	5367
mRNA Refseq	NM_002674
Protein Refseq	NP_002665
MIM	176795
UniProt ID	P20382

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Chromosome Location	12q23.2
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Peptide ligand-binding receptors, organism-specific biosystem; Signal Transduction, organism-specific biosystem;
Function	melanin-concentrating hormone activity; type 1 melanin-concentrating hormone receptor binding;

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