

## Melanin Concentrating Hormone, salmon acetate

## Chemical Properties

CAS No. :		Asp-Thr-Met-Arg-Cys-
Formula:	C91H143N27O26S4	Met-Val-Gly-Arg-Val-Tyr-
Molecular Weight:	2157	Arg-Pro-Cys-Trp-Glu-Val
	Keep away from moisture	(Disulfide bridge: Cys5-
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year	Cys14)(acetate salt)
	Actual storage temperature shall be subject to the COA.	

## Biological Description

Description	Melanin Concentrating Hormone, salmon acetate (MCH (salmon)) is a 19 amino acid cyclic peptide, is largely expressed in the hypothalamus.
Targets(IC50)	Melanin-concentrating Hormone Receptor (MCHR)
In vitro	An orphan G protein-coupled receptor (SLC-1/GPR24) has been identified as a receptor for MCH (MCHR1). MCHR2 has higher protein sequence homology to MCHR1 than any other G protein-coupled receptor. MCHR2 is specifically activated by nanomolar concentrations of MCH, binds to MCH with high affinity, and signals through Gq protein [1].
In vivo	Melanin Concentrating Hormone stimulates appetite. Continuous infusion of Melanin Concentrating Hormone into the ventricular system increases food intake for 7-8 days[2]. Intracerebroventricular infusion of Melanin Concentrating Hormone (10 µg/day) causes a slight but significant increase in body weight in mice maintained on the regular diet. Chronic stimulation of the brain Melanin Concentrating Hormone system could cause obesity in mice[3].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4636 mL	2.318 mL	4.6361 mL
5 mM	0.0927 mL	0.4636 mL	0.9272 mL
10 mM	0.0464 mL	0.2318 mL	0.4636 mL
50 mM	0.0093 mL	0.0464 mL	0.0927 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

An S, et al. Identification and characterization of a melanin-concentrating hormone receptor. Proc Natl Acad Sci U S A. 2001 Jun 19;98(13):7576-81.

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