

Melanin Concentrating Hormone, salmon TFA

Cat. No.:	HY-P1525A
Molecular Formula:	C ₉₁ H ₁₄₀ F ₃ N ₂₇ O ₂₆ S ₄
Molecular Weight:	2213.5
Sequence:	Asp-Thr-Met-Arg-Cys-Met-Val-Gly-Arg-Val-Tyr-Arg-Pro-Cys-Trp-Glu-Val (Disulfide bridge: Cys5-Cys14) DTMRCMVGRVYRCPWEV (Disulfide bridge: Cys5-Cys14) (TFA salt)
Sequence Shortening:	DTMRCMVGRVYRCPWEV (Disulfide bridge: Cys5-Cys14)
Target:	MCHR1 (GPR24)
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 25 mg/mL (11.29 mM); Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		0.4518 mL	2.2589 mL	4.5177 mL
		5 mM		0.0904 mL	0.4518 mL	0.9035 mL
		10 mM		0.0452 mL	0.2259 mL	0.4518 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (45.18 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Melanin Concentrating Hormone, salmon TFA (MCH (salmon) TFA) is a 19-amino-acid neuropeptide initially identified in the pituitary gland of teleost fish, which regulates food intake, energy balance, sleep state, and the cardiovascular system. Melanin-concentrating hormone is a ligand for an orphan G protein-coupled receptor (SLC-1/GPR24) and MCHR2.
IC₅₀ & Target	SLC-1/GPR24, MCHR2 ^[1]

REFERENCES

[1]. 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. *Ab Disord*. 2002 Oct;26(10):1289-95.

Caution: Product has not been fully validated for medical applications. For research use only.

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