

## MCH(human, mouse, rat) TFA

<b>Cat. No.:</b>	HY-P1205A	
<b>Molecular Formula:</b>	$C_{107}H_{161}F_3N_{30}O_{28}S_4$	
<b>Molecular Weight:</b>	2500.86	
<b>Sequence Shortening:</b>	DFDMLRCMLGRVYRPCWQV (Disulfide bridge:Cys7-Cys16)	DFDMLRCMLGRVYRPCWQV (Disulfide bridge:Cys7-Cys16) (TFA salt)
<b>Target:</b>	MCHR1 (GPR24)	
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling	
<b>Storage:</b>	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

<b>In Vitro</b>	DMSO : 100 mg/mL (39.99 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	0.3999 mL	1.9993 mL	3.9986 mL
5 mM		0.0800 mL	0.3999 mL	0.7997 mL	
	10 mM	0.0400 mL	0.1999 mL	0.3999 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (1.00 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (1.00 mM); Clear solution  3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.00 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	MCH (human, mouse, rat) TFA is a potent peptide agonist of MCH-R and exhibits binding IC <sub>50</sub> values of 0.3nM and 1.5 nM for MCH1R and MCH2R, respectively. MCH (human, mouse, rat) is a highly sensitive to MCH-2R in a CHO cell line and monitoring mobilization of intracellular calcium with FLIPR, exhibits functional activation EC <sub>50</sub> values of 3.9 nM and 0.1nM for human MCH-1R and MCH-2R, respectively <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Binding IC <sub>50</sub> : 0.3 nM (MCH1R) IC <sub>50</sub> : 1.5 nM (MCH1R) <sup>[1]</sup>

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## REFERENCES

[1]. A W Sailer, et al. Identification and characterization of a second melanin-concentrating hormone receptor, MCH-2R. Proc Natl Acad Sci U S A. 2001 Jun 19;98(13):7564-9.

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

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