

## hMCH-1R antagonist 1

<b>Cat. No.:</b>	HY-P4745
<b>CAS No.:</b>	353487-64-6
<b>Molecular Formula:</b>	C <sub>49</sub> H <sub>82</sub> N <sub>16</sub> O <sub>11</sub> S <sub>3</sub>
<b>Molecular Weight:</b>	1167.47
<b>Sequence:</b>	Ac-Arg-Cys-Met-{5-Ava}-Arg-Val-Tyr-{5-Ava}-Cys-NH <sub>2</sub> (Disulfide bridge: Cys2-Cys9)
<b>Sequence Shortening:</b>	Ac-RCM-{5-Ava}-RVY-{5-Ava}-C-NH <sub>2</sub> (Disulfide bridge: Cys2-Cys9)
<b>Target:</b>	MCHR1 (GPR24)
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

hMCH-1R antagonist 1 (Compound 30) is an effective and selective antagonist of human melanin-concentrating hormone receptor 1 (hMCHR1) with an  $K_B$  value of 3.6 nM. hMCH-1R antagonist 1 can bind to hMCHR1 and hMCHR2 with  $IC_{50}$  values of 65 nM and 49 nM, respectively. hMCH-1R antagonist 1 can be used for metabolic research<sup>[1]</sup>.

### REFERENCES

[1]. Bednarek MA, et al. Synthesis and biological evaluation in vitro of selective, high affinity peptide antagonists of human melanin-concentrating hormone action at human melanin-concentrating hormone receptor 1. *Biochemistry*. 2002 May 21;41(20):6383-90.

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

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