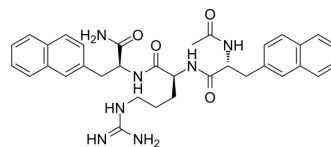


## MCL0020

Cat. No.:	HY-107627
CAS No.:	475498-26-1
Molecular Formula:	C <sub>34</sub> H <sub>39</sub> N <sub>7</sub> O <sub>4</sub>
Molecular Weight:	609.72
Target:	Melanocortin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	MCL0020 is a potent and selective melanocortin MC4 receptor antagonist, with an IC <sub>50</sub> of 11.63 nM. MCL0020 dose-dependently and significantly attenuates restraint stress-induced anorexia without affecting food intake <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 11.63 (MC4)
In Vitro	MCL0020 inhibited [ <sup>125</sup> I][N <sup>1</sup> e <sup>4</sup> , D-Phe <sup>7</sup> ]α-MSH binding to membranes of COS-1 cells with IC <sub>50</sub> values of 11.63 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	MCL0020 attenuates swim stress-induced anxiogeniclike behavior in light/dark exploration tests in mice <sup>[1]</sup> . MCL0020 significantly reverses stress-induced anorexia in rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Chaki S, et al. Involvement of the melanocortin MC4 receptor in stress-related behavior in rodents. Eur J Pharmacol. 2003;474(1):95-101.

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

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