## **Product** Data Sheet

## M40 TFA

Target:

Cat. No.: HY-P1025A

Molecular Formula:  $C_{95}H_{146}N_{22}O_{24}.xC_2HF_3O_2$ 

Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-Pro-Ala-Leu-Ala-Leu-Ala-N Sequence:

Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-Pro-Pro-Ala-Leu-Ala-

Leu-Ala-NH<sub>2</sub> (TFA salt)

GWTLNSAGYLLGPPPALALA-NH2 Sequence Shortening:

Pathway: GPCR/G Protein; Neuronal Signaling

Neuropeptide Y Receptor

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

## **BIOLOGICAL ACTIVITY**

Description

M40 TFA is the TFA salt form of M40. M40 TFA is an antagonist or a weak agonist for galanin receptor depending on different subtypes of galanin receptors in the brain, hypothalamus, hippocampus, amygdala and pancreas<sup>[1][2][3]</sup>.

In Vivo

M40 TFA (0.1-1 nmol, intracisternal injection, single dose) blocks selectively the central cardiovascular responses induced by galanin-(1–15) in Sprague-Dawley rats models, according to the recognization of galanin receptor in N-terminus<sup>[1]</sup>. M40 TFA (2-8 nmol, intraventricular or intrahippocampal, single dose) exhibits antagonist efficacy against galanin on memory tasks in sprague-dawley rats models, exhibits potency in alleviating the cognitive deficits associated with Alzheimer's disease<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

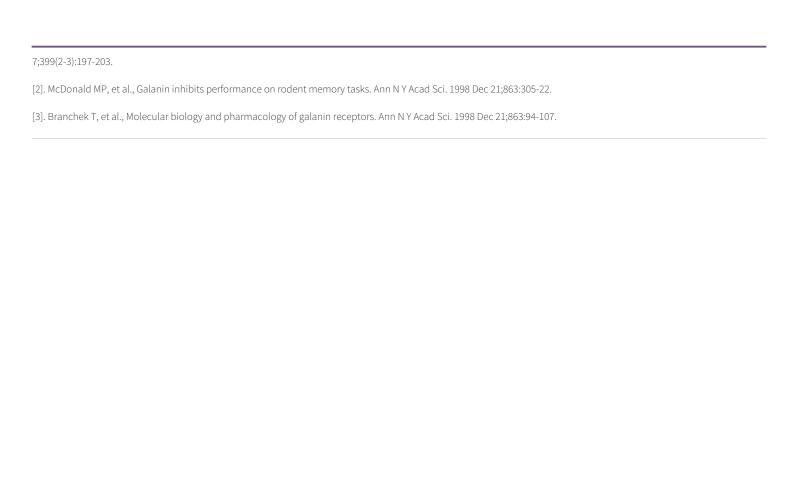
Animal Model:	Vasopressor and tachycardia induced by galanin in Sprague-Dawley ${\sf rats}^{[1]}$
Dosage:	0.1-1 nmol
Administration:	Intracisternal injection, single dose
Result:	Blocked the feeding effects of galanin in the hypothalamus and amygdala.  Reduced vasopressor response and heart rate induced by galanin-(1-15), but not those effects induced by galanin-(1-29).

Animal Model:	Memory impairment induced by galanin in rats model $^{[2]}$
Dosage:	2-8 nmol
Administration:	intraventricular or intrahippocampal, single dose
Result:	Blocked the impairment in choice accuracy.

## **REFERENCES**

[1]. Narváez JA, et al., The galanin receptor antagonist M40 blocks the central cardiovascular actions of the galanin N-terminal fragment (1-15). Eur J Pharmacol. 2000 Jul

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

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA