

## M40

Cat. No.:	HY-P1025
CAS No.:	143896-17-7
Molecular Formula:	C <sub>95</sub> H <sub>146</sub> N <sub>22</sub> O <sub>24</sub>
Molecular Weight:	1980
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>
Sequence Shortening:	GWTLSAGYLLGPPPALALA-NH <sub>2</sub>
Target:	Neuropeptide Y Receptor
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)

## BIOLOGICAL ACTIVITY

Description	M40 is a potent, non-selective galanin receptor antagonist.
In Vitro	<p>M40 (1 μM) displaces [mono[<sup>125</sup>I]Jodo-Tyr<sup>26</sup>]galanin from binding sites in the hippocampus, hypothalamus, and spinal cord. M40 has a lower affinity than galanin for all membranes. The IC<sub>50</sub> values are 6 nM in the hippocampus, 15 nM in the hypothalamus, 12 nM in the spinal cord, and 3 nM in the insulinoma cells. M40 (1 μM) completely blocks <sup>125</sup>I-labeled galanin-binding sites<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

## REFERENCES

[1]. Bartfai T, et al. Galanin-receptor ligand M40 peptide distinguishes between putative galanin-receptor subtypes. Proc Natl Acad Sci U S A. 1993 Dec 1;90(23):11287-91.

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

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