

M40

## Chemical Properties

CAS No. : 143896-17-7

Formula: C94H145N23O24

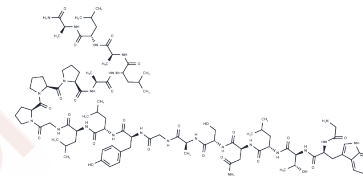
Molecular Weight: 1981.33

Appearance:

Storage:

keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	Potent, non-selective galanin receptor antagonist (K <sub>i</sub> values are 1.82 and 5.1 nM at GAL1 and GAL2 respectively) that inhibits galanin (1-29) binding in rat brain in vitro (IC <sub>50</sub> = 3 - 15 nM). Attenuates the antidepressant effects of fluoxetine and blocks galanin-induced food intake in vivo. Also exhibits weak partial agonist activity at peripheral GAL2 receptors at doses > 100 nM.
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## Solubility Information

Solubility	H <sub>2</sub> O: 1 mg/mL (0.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5047 mL	2.5236 mL	5.0471 mL
5 mM	0.1009 mL	0.5047 mL	1.0094 mL
10 mM	0.0505 mL	0.2524 mL	0.5047 mL
50 mM	0.0101 mL	0.0505 mL	0.1009 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

- Bartfai et al (1993) Galanin-receptor ligand M40 peptide distinguishes between putative galanin-receptor subtypes. *Proc.Natl.Acad.Sci.USA* 90 11287
- Yuan et al (2002) Gastric effects of galanin and its interaction with leptin on brainstem neuronal activity. *J.Pharm. Exp.Ther.* 301 488
- Lu et al (2005) A role for galanin in antidepressant actions with a focus on the dorsal raphe nucleus. *Proc.Natl. Acad.Sci.USA* 102 874

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