

M40 acetate(143896-17-7 free base)

## Chemical Properties

CAS No. :

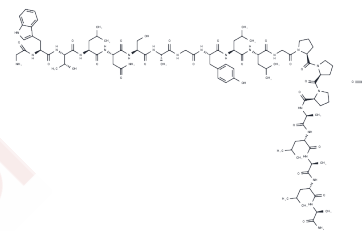
Formula: C96H149N23O26

Molecular Weight: 2041.38

Keep away from moisture

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	M40 acetate is a 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.
Targets(IC50)	Neuropeptide Y Receptor

## Solubility Information

Solubility	DMSO: 10 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	0.4899 mL	2.4493 mL	4.8986 mL
5 mM	0.098 mL	0.4899 mL	0.9797 mL
10 mM	0.049 mL	0.2449 mL	0.4899 mL
50 mM	0.0098 mL	0.049 mL	0.098 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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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