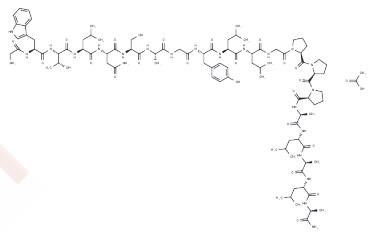
Data Sheet (Cat.No.TP1992L)

TargetMol

M40 acetate(143896-17-7 free base)

Chemical Properties



CAS No. :

Formula: C96H149N23O26

Molecular Weight: 2041.38

Appearance: Solid

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

Biological Description

Description	M40 acetate is a potent, non-selective galanin receptor antagonist (Ki values are 1.82 and 5.1 nM at GAL1 and GAL2 respectively) that inhibits galanin (1-29) binding in rat brain in vitro (IC50 = 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)

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.

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481