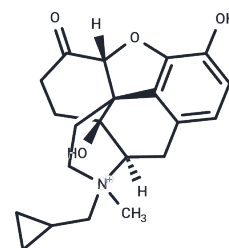


Methylnaltrexone iodide

Chemical Properties

CAS No. :	73232-53-8
Formula:	C ₂₁ H ₂₆ INO ₄
Molecular Weight:	483.346
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	Methylnaltrexone iodide, a quaternary derivative of Naltrexone, is an orally active and selective antagonist of the mu-opioid receptor. It acts peripherally in the gastrointestinal tract to antagonize the receptor and exhibits limited permeability across the blood-brain barrier.
Targets(IC50)	Others
In vivo	At a dosage of 2.0 mg/kg, Methylnaltrexone iodide, when injected into morphine-induced male Albino Hartley strain guinea pigs, effectively returned the number of coughs to baseline levels without affecting nociception [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0689 mL	10.3445 mL	20.6889 mL
5 mM	0.4138 mL	2.0689 mL	4.1378 mL
10 mM	0.2069 mL	1.0344 mL	2.0689 mL
50 mM	0.0414 mL	0.2069 mL	0.4138 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

- Chandrasekaran A, Tong Z, Li H, et al. Metabolism of intravenous methylnaltrexone in mice, rats, dogs, and humans. *Drug Metab Dispos.* 2010;38(4):606-616.
- Foss JF, Oreland E, Goldberg LI. Effects of methylnaltrexone on morphine-induced cough suppression in guinea pigs. *Life Sci.* 1996;59(15):PL235-PL238.
- Rauck R, et al. Randomized, Double-Blind Trial of Oral Methylnaltrexone for the Treatment of Opioid-Induced Constipation in Patients with Chronic Noncancer Pain. *Pain Pract.* 2017 Jul;17(6):820-828.

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