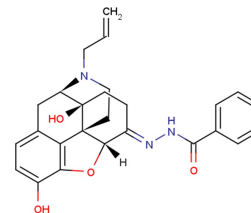


Naloxone benzoylhydrazone

Chemical Properties

CAS No.:	119630-94-3
Formula:	C ₂₆ H ₂₇ N ₃ O ₄
Molecular Weight:	445.51
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Naloxone benzoylhydrazone is a prototypic κ 3-opioid receptor agonist, and a partial agonist at the cloned μ and δ opioid receptors, and an antagonist at opioid-like NOP receptors, has potentially analgesia effect.
Targets(IC ₅₀)	κ 3-opioid receptor: None
In vitro	At the κ -opioid receptor (KOR), Naloxone benzoylhydrazone stimulates [35S]GTP γ S binding with pEC ₅₀ of 9.70 and inhibits cyclic AMP formation (pEC ₅₀ =9.45). In CHO cells expressing the δ -opioid receptor (DOR), Naloxone benzoylhydrazone increases [35S]GTP γ S binding (pEC ₅₀ =8.49) and inhibits cyclic AMP formation (pE ₅₀ =8.61) [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.245 mL	11.223 mL	22.446 mL
5 mM	0.449 mL	2.245 mL	4.489 mL
10 mM	0.224 mL	1.122 mL	2.245 mL
50 mM	0.045 mL	0.224 mL	0.449 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Olinas MC, et al. Agonist activity of naloxone benzoylhydrazone at recombinant and native opioid receptors. *Br J Pharmacol*. 2006 Feb;147(4):360-70.
2. Connor M, et al. Has the sun set on kappa3-opioid receptors? *Br J Pharmacol*. 2006 Feb;147(4):349-50.
3. Paul D, et al. Naloxone benzoylhydrazone (NalBzoH) analgesia. *J Pharmacol Exp Ther*. 1990 Nov;255(2):769-74.
4. Gistrak MA, et al. Pharmacological actions of a novel mixed opiate agonist/antagonist: naloxone benzoylhydrazone. *J Pharmacol Exp Ther*. 1989 Nov;251(2):469-76.

Inhibitors · Natural Compounds · Compound Libraries

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