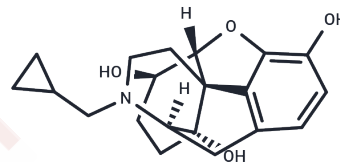


6 $\beta$ -Naltrexol

## Chemical Properties

CAS No. :	49625-89-0
Formula:	C <sub>20</sub> H <sub>25</sub> NO <sub>4</sub>
Molecular Weight:	343.42
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	6 $\beta$ -Naltrexol functions as a potent and peripherally selective opioid receptor antagonist. Unlike central-acting opioid antagonists, 6 $\beta$ -Naltrexol is restricted primarily to peripheral tissues, which allows it to counteract opioid-mediated side effects such as opioid-induced constipation while minimizing central nervous system interactions. 6 $\beta$ -Naltrexol is therefore relevant in researches in peripheral opioid effects.
Targets(IC50)	Opioid Receptor

## Solubility Information

Solubility	DMSO: 80 mg/mL (232.95 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	2.9119 mL	14.5594 mL	29.1189 mL
5 mM	0.5824 mL	2.9119 mL	5.8238 mL
10 mM	0.2912 mL	1.4559 mL	2.9119 mL
50 mM	0.0582 mL	0.2912 mL	0.5824 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

Cone EJ, et al. Biosynthesis, isolation, and identification of 6-beta-hydroxynaltrexone, a major human metabolite of naltrexone. J Pharm Sci. 1975 Apr;64(4):618-21.

Yancey-Wrona J, et al. 6 $\beta$ -naltrexol, a peripherally selective opioid antagonist that inhibits morphine-induced slowing of gastrointestinal transit: an exploratory study. Pain Med. 2011 Dec;12(12):1727-37.

Martin DJ, et al. An efficient synthesis of 3-OBn-6 $\beta$ ,14-epoxy-bridged opiates from naltrexone and identification of a related dual MOR inverse agonist/KOR agonist. Bioorg Med Chem Lett. 2012 Nov 15;22(22):6801-5.

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