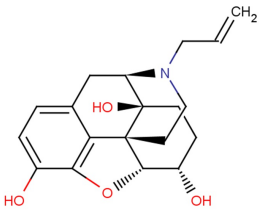
Data Sheet (Cat.No.T10180)

TargetMol
A DRUG SCREENING EXPERT

6-Alpha Naloxol

Chemical Properties



CAS No.:	20410-95-1
Formula:	C19H23NO4
Molecular Weight:	329.39
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	6-Alpha Naloxol(Alpha-Naloxol) is an opioid antagonist and is a human metabolite of naloxone.
Targets(IC_{50})	Others: None
In vitro	When responding over the entire 30 min operant session was examined, naloxone was only 5-fold more potent than 6-alpha-naloxol in suppressing operant responding under Morphine Na ve conditions, but this increased to a 65-fold potency difference after Single or Repeat Morphine pretreatment. Examination of the relative potency of these antagonists in the Early Phase of operant testing (5-15 min post-antagonist) revealed an even greater 100-fold potency difference between naloxone and 6-alpha-naloxol, but in the Late Phase of testing (25-35 min post-antagonist), this had declined to a 9-fold potency difference, comparable to the relative potency of naloxone to 6-alpha-naloxol under Morphine-Na ve conditions [3].

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.036 mL	15.18 mL	30.359 mL
5 mM	0.607 mL	3.036 mL	6.072 mL
10 mM	0.304 mL	1.518 mL	3.036 mL
50 mM	0.061 mL	0.304 mL	0.607 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Weinstein SH, et al. Metabolites of naloxone in human urine. J Pharm Sci. 1971 Oct;60(10):1567-8.
2. Csaba Simon, et al. Stereoselective synthesis of β-naltrexol, β-naloxol β-naloxamine, β-naltrexamine and related compounds by the application of the mitsunobu reac. Tetrahedron Volume 50, Issue 32, 1994, Pages 9757–9768.
3. Schulteis G, et al. Relative potency of the opioid antagonists naloxone and 6-alpha-naloxol to precipitate withdrawal from acute morphine dependence varies with time post-antagonist. Pharmacol Biochem Behav. 2009 Mar;92(1):157-63.

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