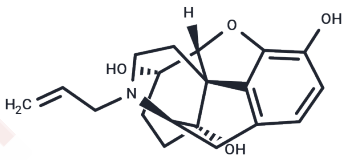
Data Sheet (Cat.No.T10180)

TargetMol

6-Alpha Naloxol

Chemical Properties



CAS No. : 20410-95-1

Formula: C19H23NO4

Molecular Weight: 329.39

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-Alpha Naloxol (Alpha-Naloxol) is an opioid antagonist and a human metabolite of naloxone.
Targets(IC50)	Others
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].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0359 mL	15.1796 mL	30.3591 mL
5 mM	0.6072 mL	3.0359 mL	6.0718 mL
10 mM	0.3036 mL	1.518 mL	3.0359 mL
50 mM	0.0607 mL	0.3036 mL	0.6072 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

Weinstein SH, et al. Metabolites of naloxone in human urine. J Pharm Sci. 1971 Oct;60(10):1567-8.
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.
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.

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