

Polidocanol

Chemical Properties

CAS No. : 9002-92-0

Formula: (C₂H₄O)_nC₁₂H₂₆O

Molecular Weight:

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	Polidocanol (Polyoxyethylene lauryl ether) is an alkyl polyethylene glycol ether of lauryl alcohol, which is a derivative of natural fatty or alkyl alcohols in natural mineral oil and is a hardener. Polidocanol can be used as a local anesthetic, but in combination with other anesthetic drugs there is a risk of enhancing the effects of the anesthetic drugs on the cardiovascular system.
Targets(IC50)	Others
In vivo	Polidocanol (0.5%, 1%, and 2%) causes obviously more adhesions than tetracycline, whereas the effect of diluted polidocanol is similar to that of tetracycline in rats. The higher concentrations of polidocanol, of 0.5%, 1%, and 2% are more effective than either the diluted polidocanol or tetracycline against pleurodesis.[1]

Solubility Information

Solubility	H ₂ O: 45 mg/mL, Sonication is recommended. DMSO: 237.5 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Cetin B, et al. Polidocanol at different concentrations for pleurodesis in rats. Surg Today. 2005;35(12):1066-1069.

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