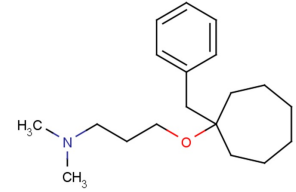


Benzcyclane

Chemical Properties

CAS No.:	2179-37-5
Formula:	C ₁₉ H ₃₁ NO
Molecular Weight:	289.46
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Benzcyclane (Bencyclane) is an inhibitor of platelet aggregation and a vasodilator effective in a variety of peripheral circulation disorders.
Targets(IC ₅₀)	Others: None
In vivo	Benzcyclane induces use-dependent inhibition of Na channels in muscle, similarly as do class 1 antiarrhythmic drugs. Inhibition was observed with both normal and cevadine-modified Na channels [2]. Benzcyclane, although capable of aggregating platelets by itself at very high concentrations, shows a striking inhibitory effect, over a wide range of concentrations, both on platelet aggregation induced by ADP, epinephrine, or collagen and on platelet adhesiveness to glass or collagen [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	3.455 mL	17.274 mL	34.547 mL
5 mM	0.691 mL	3.455 mL	6.909 mL
10 mM	0.345 mL	1.727 mL	3.455 mL
50 mM	0.069 mL	0.345 mL	0.691 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

- Ponari O, et al. In vitro effects of bencyclan on coagulation, fibrinolysis and platelet function. *Arzneimittelforschung*. 1976;26(8):1532-8.
- Nánási PP, et al. Effects of bencyclane on normal and cevadine-modified Na channels in frog skeletal muscle. *Gen Physiol Biophys*. 1989 Oct;8(5):447-58.

Inhibitors · Natural Compounds · Compound Libraries

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