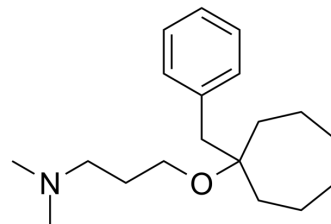


Benzcyclane

Cat. No.:	HY-U00134		
CAS No.:	2179-37-5		
Molecular Formula:	C ₁₉ H ₃₁ NO		
Molecular Weight:	289.46		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (345.47 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.4547 mL	17.2735 mL	34.5471 mL
	5 mM	0.6909 mL	3.4547 mL	6.9094 mL
	10 mM	0.3455 mL	1.7274 mL	3.4547 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Benzcyclane (Bencyclane; Benzcyclan) is a platelet aggregation inhibitor and a vasodilator effective in a variety of peripheral circulation disorders.

In Vivo

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. Clot retraction is also clearly inhibited^[1]. 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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ponari O, et al. In vitro effects of bencyclan on coagulation, fibrinolysis and platelet function. *Arzneimittelforschung*. 1976;26(8):1532-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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