
Product Data Sheet

Product Name: Benzcyclane (Bencyclane)

Cat. No.: GC32506

Chemical Properties

Cas. No. 2179-37-5

SMILES CN(C)CCCOC1(CC2=CC=CC=C2)CCCCC1

Formula C₁₉H₃₁NO

M.Wt 289.46

Solubility DMSO : ≥ 100 mg/mL (345.47 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

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

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].

[1]. Ponari O, et al. In vitro effects of bencyclan on coagulation, fibrinolysis and platelet function. *Arzneimittelforschung*. 1976;26(8):1532-8. [2]. 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.

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

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