

Product Data Sheet

Product Name: Pincainide

Cat. No.: GC79497

Chemical Properties

Cas. No. 83471-41-4

Formula $C_{16}H_{24}N_2O$ M.Wt 260.38

Solubility DMSO: 50 mg/mL (192.03 mM; Need ultrasonic) 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.

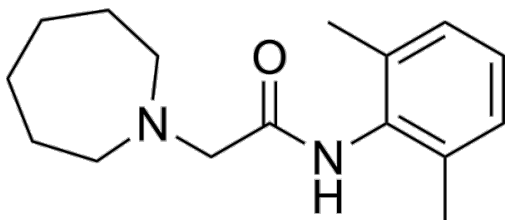
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Pincaínide is a calcium channel inhibitor. Pincaínide inhibits voltage-gated calcium channel-mediated calcium influx in smooth muscle. Pincaínide inhibits norepinephrine- and high potassium-induced contractile responses. Pincaínide can be used in the research of heart diseases ^[1].

In Vitro, Pincaínide (0.5 mM; 5 min) significantly reduces Ca²⁺-induced contractile responses in K⁺-depolarized isolated rat aortic strips by inhibiting voltage-gated channel-mediated Ca²⁺ influx^[1]. Pincaínide (0.5-5 mM; 10 min) inhibits norepinephrine-stimulated ⁴⁵Ca influx in isolated rat aortic strips in a dose-dependent manner, with an inhibition rate of 20.8% at 0.5 mM and 47.7% at 5 mM^[1].

References:

[1]. Barrigón S, et al. Effects of pincaínide on contractile responses and ⁴⁵Ca movements in rat

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isolated vascular smooth muscle. Eur J Pharmacol. 1985;111(2):227-233.

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