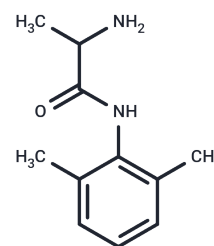


Tocainide

Chemical Properties

CAS No. :	41708-72-9
Formula:	C ₁₁ H ₁₆ N ₂ O
Molecular Weight:	192.26
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	Tocainide is a blocker of the sodium channel and used for the treatment of tinnitus.
Targets(IC50)	Sodium Channel
In vivo	Ventricular ectopic activity in unanesthetized dogs with coronary occlusion effectively suppressed by Tocainide (100 mg/kg). In both digitalis toxicity and coronary occlusion models, the Termination of tocainide infusion results in the prompt return of ventricular ectopic activity [1].

Solubility Information

Solubility	DMSO: 11 mg/mL (57.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2013 mL	26.0064 mL	52.0129 mL
5 mM	1.0403 mL	5.2013 mL	10.4026 mL
10 mM	0.5201 mL	2.6006 mL	5.2013 mL
50 mM	0.104 mL	0.5201 mL	1.0403 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Alpert JS, et al. Chemistry, pharmacology, antiarrhythmic efficacy and adverse effects of tocainide hydrochloride, an orally active structural analog of lidocaine. *Pharmacotherapy*. 1983 Nov-Dec;3(6):316-23.

De Luca A, et al. Optimal requirements for high affinity and use-dependent block of skeletal muscle sodium channel by N-benzyl analogs of tocainide-like compounds. *Mol Pharmacol*. 2003 Oct;64(4):932-45.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481