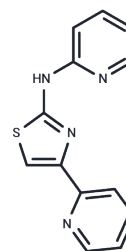


ICA

Chemical Properties

CAS No. :	3374-88-7
Formula:	C ₁₃ H ₁₀ N ₄ S
Molecular Weight:	254.31
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	ICA (N-[4-(2-Pyridinyl)-2-thiazolyl]-2-pyridinamine) is a SK channel inhibitor and exhibits antileishmanial activity (IC ₅₀ : 2.1 μM).
Targets(IC ₅₀)	Parasite,Potassium Channel
In vitro	ICA prevents electrically induced runs of atrial fibrillation in the isolated right atrium and induces atrial postrepolarization refractoriness and depolarizes resting membrane potential. SK channel inhibition by ICA (10-30 μM) demonstrates prominent depression of other sodium channel-dependent parameters, at increased pacing frequencies. The SK channel inhibitor ICA shows antiarrhythmic effects. ICA at 1 to 10 μM displays conduction velocity[2].

Solubility Information

Solubility	DMSO: 60 mg/mL (235.93 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	3.9322 mL	19.661 mL	39.3221 mL
5 mM	0.7864 mL	3.9322 mL	7.8644 mL
10 mM	0.3932 mL	1.9661 mL	3.9322 mL
50 mM	0.0786 mL	0.3932 mL	0.7864 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

Bhuniya D, et al. Aminothiazoles: Hit to lead development to identify antileishmanial agents. Eur J Med Chem. 2015 Sep 18;102:582-93.

Skibsbye L, et al. Antiarrhythmic Mechanisms of SK Channel Inhibition in the Rat Atrium. J Cardiovasc Pharmacol. 2015 Aug;66(2):165-76.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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