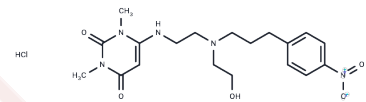


Nifekalant hydrochloride

Chemical Properties

CAS No. :	130656-51-8
Formula:	C ₁₉ H ₂₈ ClN ₅ O ₅
Molecular Weight:	441.91
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	Nifekalant hydrochloride is an IKr potassium channel blocker with an IC ₅₀ of 10 μM. It is a Class III antiarrhythmic compound and can be used in the study of tachyarrhythmias.
Targets(IC ₅₀)	Potassium Channel

Solubility Information

Solubility	DMSO: 9 mg/mL (20.37 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.26 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2629 mL	11.3145 mL	22.629 mL
5 mM	0.4526 mL	2.2629 mL	4.5258 mL
10 mM	0.2263 mL	1.1315 mL	2.2629 mL
50 mM	0.0453 mL	0.2263 mL	0.4526 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

Oyabe A, Sano H. Nippon Yakurigaku Zasshi, 2002, 119 (2): 103-9.

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