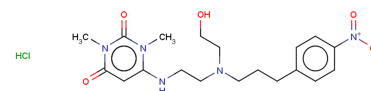


Nifekalant hydrochloride

Chemical Properties

CAS No. : 130656-51-8
Formula: C₁₉H₂₈ClN₅O₅
Molecular Weight: 441.91
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



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), $\leq 1\text{ mg/mL}$ refers to the product slightly soluble or insoluble)
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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.

Reference

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

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