Data Sheet (Cat.No.T11239)

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Ethacizine hydrochloride

Chemical Properties

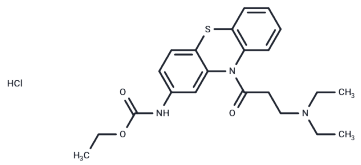
CAS No. : 57530-40-2

Formula: C22H28ClN3O3S

Molecular Weight: 449.99

Appearance: no data available

Storage: store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Ethacizine hydrochloride (NIK-244) has antiarrhythmic activity, and its effects are related to cardiac activity and can be used to study arrhythmias and myocardial infarction.
Targets(IC50)	Sodium Channel
In vivo	Injecting Ethacizine hydrochloride (1-300 ug) directly into the SA node shows negative chronotropic, negative inotropic, and coronary vasodilator effects, as observed in PM preparations[2].

Solubility Information

Solubility	DMSO: 80 mg/mL (200.00 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2223 mL	11.1114 mL	22.2227 mL
5 mM	0.4445 mL	2.2223 mL	4.4445 mL
10 mM	0.2222 mL	1.1111 mL	2.2223 mL
50 mM	0.0444 mL	0.2222 mL	0.4445 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

Satoh H, et al. An electrophysiological comparison of a novel class Ic antiarrhythmic agent, NIK-244 (ethacizin) and flecainide in canine ventricular muscle.Br J Pharmacol. 1989 Nov;98(3):827-32.Med Chem. 2019 Nov 6:115132.

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