

AM-92016 hydrochloride

Chemical Properties

CAS No. : 133229-11-5

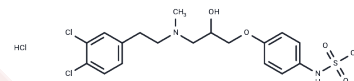
Formula: C₁₉H₂₄Cl₂N₂O₄S.HCl

Molecular Weight: 483.84

Pure form: -20°C for 3 years | In solvent: -80°C for 1

Storage: year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	AM-92016 is a specific blocker of rectifier potassium current. AM-92016 delays rectifier potassium channel and repolarizes the membrane thereby restricting the duration of the nerve impulse.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	DMSO: 150 mg/mL (310.02 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: 4 mg/mL (8.27 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	2.0668 mL	10.334 mL	20.668 mL
5 mM	0.4134 mL	2.0668 mL	4.1336 mL
10 mM	0.2067 mL	1.0334 mL	2.0668 mL
50 mM	0.0413 mL	0.2067 mL	0.4134 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

Connors SP, et al. Actions and mechanisms of action of novel analogues of sotalol on guinea-pig and rabbit ventricular cells. Br J Pharmacol. 1992 Aug;106(4):958-65.

Palen DI, et al. Role of SHP-1, Kv.1.2, and cGMP in nitric oxide-induced ERK1/2 MAP kinase dephosphorylation in rat vascular smooth muscle cells. Cardiovasc Res. 2005 Nov 1;68(2):268-77.

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