

## **Product** Data Sheet

# AM-92016 hydrochloride

Cat. No.: HY-101253

CAS No.: 133229-11-5

Molecular Formula: C<sub>19</sub>H<sub>25</sub>Cl<sub>3</sub>N<sub>2</sub>O<sub>4</sub>S

Molecular Weight: 483.84

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: 4°C, sealed storage, away from moisture and light

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

and light)

#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 260 mg/mL (537.37 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0668 mL	10.3340 mL	20.6680 mL
	5 mM	0.4134 mL	2.0668 mL	4.1336 mL
	10 mM	0.2067 mL	1.0334 mL	2.0668 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.17 mg/mL (4.48 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -CD in saline) Solubility:  $\geq$  2.17 mg/mL (4.48 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.17 mg/mL (4.48 mM); Clear solution

### **BIOLOGICAL ACTIVITY**

Description

AM-92016 hydrochloride is a specific blocker of rectifier potassium current (IK). AM-92016 hydrochloride delays rectifier potassium channel (IK), repolarizes the membrane thereby restricting the duration of the nerve impulse thereby restricting the duration of the nerve impulse  $^{[1]}$ .

#### **REFERENCES**

1]. ConnorsSP,etal.Actions and	I mechanisms of action of	novel analogues of sotalol on guir	nea-pig and rabbitventricular cells. Br J Pharmacol. 1992 A	Aug;106(4):958-65.
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	Caution: Product has	not been fully validated for m	edical applications. For research use only.	
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