

# Azimilide (Dihydrochloride)

Catalog No: tcsc3488



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

149888-94-8

**Formula:**

$C_{23}H_{30}Cl_3N_5O_3$

**Pathway:**

Membrane Transporter/Ion Channel

**Target:**

Potassium Channel

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 8.46 mg/mL (15.94 mM; Need ultrasonic and warming)

**Alternative Names:**

NE-10064 Dihydrochloride

**Observed Molecular Weight:**

530.88

## Product Description

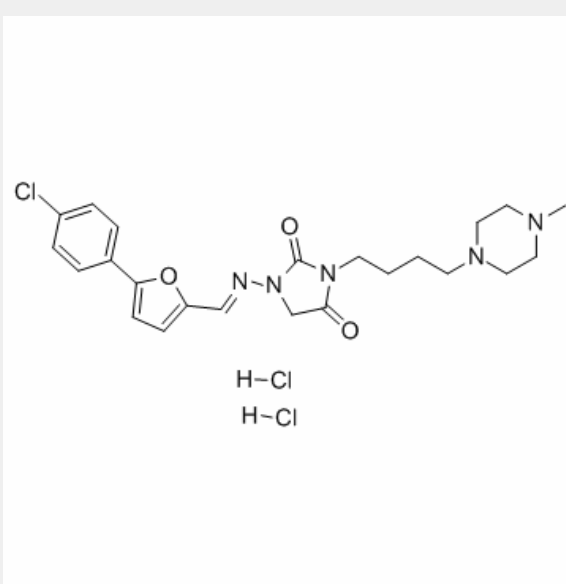
Azimilide 2HCl (NE-10064 2HCl) is a class III antiarrhythmic compound, inhibits I(Ks) and I(Kr) in guinea-pig cardiac myocytes and I(Ks) (minK) channels expressed in *Xenopus* oocytes.

IC50 value:

Target:

in vitro: Azimilide blocked HERG channels at 0.1 and 1 Hz with IC50s of 1.4  $\mu\text{M}$  and 5.2  $\mu\text{M}$  respectively. Azimilide blockade of HERG channels expressed in *Xenopus* oocytes and I(Kr) in mouse AT-1 cells was decreased under conditions of high  $[\text{K}^+]_e$ , whereas block of slowly activating I(Ks) channels was not affected by changes in  $[\text{K}^+]_e$  [1]. Azimilide suppressed the following currents (Kd in parenthesis): IKr ( or = 50  $\mu\text{M}$  at +50 and -140 mV, respectively). Azimilide blocked IKr, IKs, and INa in a use-dependent manner. Furthermore, azimilide reduced a slowly inactivating component of Na current that might be important for maintaining the action potential plateau in canine ventricular myocytes [2]. In guinea pig ventricular myocytes, NE-10064 (0.3-3  $\mu\text{M}$ ) significantly prolonged action potential duration (APD) at 1 Hz. At 3 Hz, NE-10064 (0.3-1  $\mu\text{M}$ ) increased APD only slightly, and at 10  $\mu\text{M}$  decreased APD and the plateau potential. NE-10064 potently blocked the rapidly activating component of the delayed rectifier, IKr (IC50 0.4  $\mu\text{M}$ ), and inhibited IKs (IC50 3  $\mu\text{M}$ ) with nearly 10-fold less potency [3].

in vivo: NE-10064 (10 mg/kg intravenously, i.v.) reduced (p



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!