

# Moricizine

Catalog No: tcsc2840



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

31883-05-3

**Formula:**

$C_{22}H_{25}N_3O_4S$

**Pathway:**

Membrane Transporter/Ion Channel

**Target:**

Sodium Channel

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

Moracizine

**Observed Molecular Weight:**

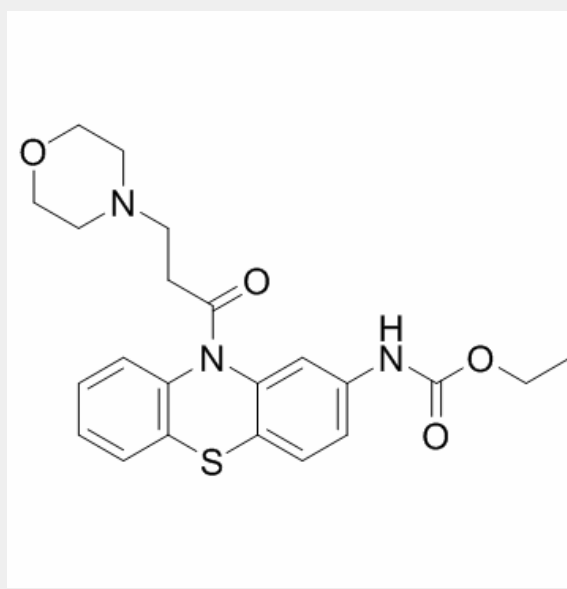
427.52

## Product Description

Moricizine is an antiarrhythmia agent used primarily for ventricular rhythm disturbances.

Target: Sodium Channel

Moricizine is an antiarrhythmia agent used primarily for ventricular rhythm disturbances. Moricizine works by inhibiting the rapid inward sodium current across myocardial cell membranes. Moricizine induced the tonic block of  $I_{Na}$  with the apparent dissociation constant ( $K_{d,app}$ ) of 6.3  $\mu\text{M}$  at -100 mV and 99.3  $\mu\text{M}$  at -140 mV. Moricizine at 30  $\mu\text{M}$  shifted the  $h_{\infty}$  curve to the hyperpolarizing direction by 8.6  $\pm$  2.4 mV. Moricizine also produced the phasic block of  $I_{Na}$ , which was enhanced with the increase in the duration of train pulses, and was more prominent with a holding potential (HP) of -100 mV than with an HP of -140 mV. Moricizine would exert an antiarrhythmic action on atrial myocytes, as well as on ventricular myocytes, by blocking  $\text{Na}^+$  channels with a high affinity to the inactivated state and a slow dissociation kinetics [1].



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