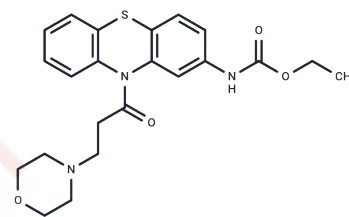


## Morcizine

## Chemical Properties

CAS No. :	31883-05-3
Formula:	C <sub>22</sub> H <sub>25</sub> N <sub>3</sub> O <sub>4</sub> S
Molecular Weight:	427.52
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Morcizine is an antiarrhythmia agent which is used primarily for ventricular rhythm disturbances.
Targets(IC50)	Others
In vitro	Morcizine would exert an antiarrhythmic action on atrial myocytes, as well as on ventricular myocytes, by blocking Na <sup>+</sup> channels with a high affinity to the inactivated state and slow dissociation kinetics. Morcizine induced the tonic block of I <sub>Na</sub> with the apparent dissociation constant (K <sub>d,app</sub> ) of 6.3 μM at -100 mV and 99.3 μM at -140 mV. Morcizine works by inhibiting the rapid inward sodium current across myocardial cell membranes. Morcizine at 30 μM shifted the h infinity curve to the hyperpolarizing direction by 8.6 +/- 2.4 mV. Morcizine also produced the phasic block of I <sub>Na</sub> , 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.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3391 mL	11.6954 mL	23.3907 mL
5 mM	0.4678 mL	2.3391 mL	4.6781 mL
10 mM	0.2339 mL	1.1695 mL	2.3391 mL
50 mM	0.0468 mL	0.2339 mL	0.4678 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

Ahmed, G.U., et al., Analysis of moricizine block of sodium current in isolated guinea-pig atrial myocytes. Atrioventricular difference of moricizine block. *Vascul Pharmacol*, 2002. 38(3): p. 131-41.

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