

## **Product** Data Sheet

## Cibenzoline

Cat. No.: HY-106577

CAS No.: 53267-01-9

Molecular Formula:  $C_{18}H_{18}N_2$ Molecular Weight: 262.35

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: Powder

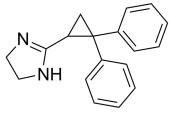
4°C 2 years

3 years

In solvent -80°C 6 months

-20°C

-20°C 1 month



## **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 100 mg/mL (381.17 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.8117 mL	19.0585 mL	38.1170 mL
	5 mM	0.7623 mL	3.8117 mL	7.6234 mL
	10 mM	0.3812 mL	1.9059 mL	3.8117 mL

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

In Vivo

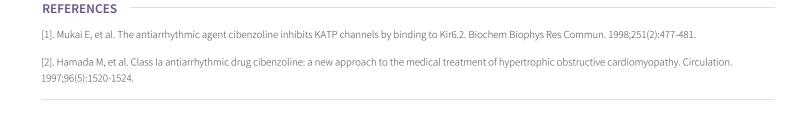
- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.53 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -CD in saline) Solubility:  $\geq$  2.5 mg/mL (9.53 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.53 mM); Clear solution

## **BIOLOGICAL ACTIVITY**

Description

Cibenzoline is a potent inhibitor of KATP channel with directly affecting the pore-forming Kir6.2 subunit rather than the SUR1 subunit. Cibenzoline is a class Ia antiarrhythmic agent. Cibenzoline has little anticholinergic activity. Cibenzoline markedly attenuate LVPG which has a close relationship with myocardial contractility decreasing. Cibenzoline has the potential for the research of hypertrophic obstructive cardiomyopathy<sup>[1][2]</sup>.

 ${\sf IC}_{\sf 50}$  & Target KATP channel [1]



Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com