

Product Data Sheet

Product Name: Cibenzoline

Cat. No.: GC64925

Chemical Properties

Cas. No. 53267-01-9

Formula C₁₈H₁₈N₂

M.Wt 262.35

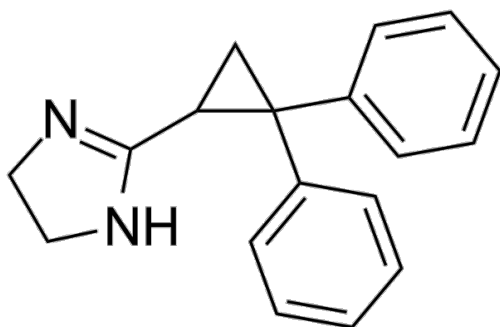
Solubility DMSO : 100 mg/mL (381.17 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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 drug. 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[1][2].

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

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- [1]. Mukai E, et al. The antiarrhythmic agent cibenzoline inhibits KATP channels by binding to Kir6.2. *Biochem Biophys Res Commun.* 1998;251(2):477-481.
- [2]. Hamada M, et al. Class Ia antiarrhythmic drug cibenzoline: a new approach to the medical treatment of hypertrophic obstructive cardiomyopathy. *Circulation.* 1997;96(5):1520-1524.

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