Isoprothiolane

Cat. No.: HY-B1858

CAS No.: 50512-35-1

Molecular Formula: $C_{12}H_{18}O_4S_2$

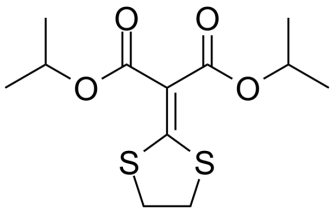
Molecular Weight: 290.4

Target: Fungal

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (344.35 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.4435 mL	17.2176 mL	34.4353 mL
5 mM	0.6887 mL	3.4435 mL	6.8871 mL
10 mM	0.3444 mL	1.7218 mL	3.4435 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 (8.61 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.61 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.61 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Isoprothiolane is a systemic fungicide. Isoprothiolane is a rice blast controlling agent against the fungal disease of rice planty Pyvioutavia oryzae Cav[1].

REFERENCES

[1]. Matazaemon Uchida, et al. Effect of a Rice Blast Controlling Agent, Isoprothiolane, on Nilaparvata Lugens Stal with Different Levels of Susceptibility to Diazinon. Pest Resistance to Pesticides pp 421-428

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