Dehydroacetic acid

Cat. No.: HY-B1211

CAS No.: 520-45-6

Molecular Formula: $C_8H_8O_4$

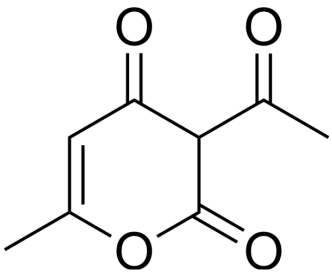
Molecular Weight: 168.15

Target: Bacterial; Fungal

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (297.35 mM; Need ultrasonic)

H_2O : 0.67 mg/mL (3.98 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	5.9471 mL	29.7354 mL	59.4707 mL
5 mM	1.1894 mL	5.9471 mL	11.8941 mL
10 mM	0.5947 mL	2.9735 mL	5.9471 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: ≥ 2.75 mg/mL (16.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.75 mg/mL (16.35 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (16.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dehydroacetic acid (Biocide 470F), a pyrone derivative acts as an antibacterial and antifungal agent. Dehydroacetic acid possess phytotoxic activity[1].

REFERENCES

[1]. Baldwin AG, et al. Synthesis and antibacterial activities of enamine derivatives of dehydroacetic acid. Med Chem Res. 2018;27(3):884-889.

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