Ethephon

Cat. No.: HY-W131845

CAS No.: 16672-87-0

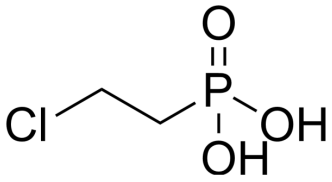
Molecular Formula: $C_2H_6ClO_3P$

Molecular Weight: 144.49

Target: Others

Pathway: Others

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (692.09 mM; Need ultrasonic)
H_2O : 100 mg/mL (692.09 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	6.9209 mL	34.6045 mL	69.2089 mL
	5 mM	1.3842 mL	6.9209 mL	13.8418 mL
	10 mM	0.6921 mL	3.4604 mL	6.9209 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (17.30 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (17.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ethephon is a plant growth regulator[1].

In Vitro

Ethephon (50 μM) enhances both root growth and ginsenoside accumulation in ginseng (Panax ginseng C.A. Meyer) adventitious root cultures, but at 100 μM it inhibits only ginsenoside accumulation[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bae KH, et al. Enhanced ginsenoside productivity by combination of ethephon and methyl jasmoante in ginseng (Panax ginseng C.A. Meyer) adventitious root cultures. Biotechnol Lett. 2006 Aug;28(15):1163-6.

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