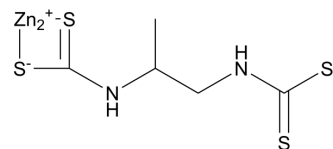


Propineb

Cat. No.:	HY-119630		
CAS No.:	12071-83-9		
Molecular Formula:	C ₅ H ₈ N ₂ S ₄ Zn ₂ ⁻		
Molecular Weight:	355.15		
Target:	Bacterial		
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 : 33.33 mg/mL (93.85 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8157 mL	14.0786 mL	28.1571 mL
	5 mM	0.5631 mL	2.8157 mL	5.6314 mL
	10 mM	0.2816 mL	1.4079 mL	2.8157 mL

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

BIOLOGICAL ACTIVITY

Description

Propineb (Zinc propylenebis) is a compound widely used in fruit and vegetables cultures, due to its large spectrum of activity against fungal plant diseases^[1].

In Vivo

Propineb (Zinc propylenebis) has a moderate to low acute toxicity with a specific goitrogenic effect in rats. long-term exposure, oral or by inhalation is related to carcinogenicity, teratogenicity, malfunction of the reproductive system and malformation of their vitals^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Viviani B, et al. Dithiocarbamate propineb induces acetylcholine release through cytoskeletal actin depolymerization in PC12 cells. Toxicol Lett. 2008 Nov 10;182(1-3):63-8.

[2]. Kazos EA, et al. Determination of dithiocarbamate fungicide propineb and its main metabolite propylenethiourea in airborne samples. Chemosphere. 2007

Aug;68(11):2104-10.

[3]. Viviani B, et al. Dithiocarbamate propineb induces acetylcholine release through cytoskeletal actin depolymerization in PC12 cells. Toxicol Lett. 2008 Nov 10;182(1-3):63-8.

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

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