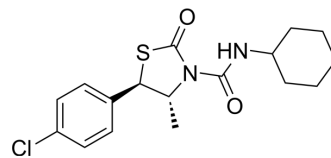


Hexythiazox

Cat. No.:	HY-B1851		
CAS No.:	78587-05-0		
Molecular Formula:	C ₁₇ H ₂₁ ClN ₂ O ₂ S		
Molecular Weight:	352.88		
Target:	Parasite		
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 (283.38 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	Preparing Stock Solutions	1 mM	2.8338 mL	14.1691 mL
	5 mM	0.5668 mL	2.8338 mL	5.6676 mL
	10 mM	0.2834 mL	1.4169 mL	2.8338 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.08 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Hexythiazox is a selective acaricide with ovicidal, larvicidal and nymphicidal activities. Hexythiazox is widely used for chemical control of mites on cotton, fruits and vegetables. Hexythiazox is harmless to mammals and has no effect on beneficial insects and predators of mites ^{[1][2]} .
IC₅₀ & Target	Mite
In Vitro	Hexythiazox is dissipated easily in strawberries, with the half-life ranging from 3.43 to 3.59 days ^[1] . Hexythiazox induces toxicity in larvae of the two-spotted spider mite, Tetranychus urticae, and the European red mite, Panonychus ulmi with LC ₅₀ values of 0.15-0.58 mg AI/L and 0.23-0.62 mg AI/L, respectively ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ayman N Saber, et al. Dissipation Dynamic, Residue Distribution and Processing Factor of Hexythiazox in Strawberry Fruits Under Open Field Condition. Food Chem. 2016 Apr 1;196:1108-16.

[2]. R Nauen, et al. Acaricide Toxicity and Resistance in Larvae of Different Strains of Tetranychus Urticae and Panonychus Ulmi (Acari: Tetranychidae). Pest Manag Sci. 2001 Mar;57(3):253-61.

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

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