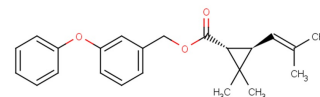


D-Phenothrin

Chemical Properties

CAS No.:	26046-85-5
Formula:	C ₂₃ H ₂₆ O ₃
Molecular Weight:	350.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	D-Phenothrin ((-)-trans-Phenothrin) is an orally active type II synthetic pyrethroid, which is widely used to kill insects, mosquitoes and human lice. D-phthalate is also used in veterinary medicine to control pests on animals and protect crops.
Targets(IC ₅₀)	Others: None
In vivo	D-Phenothrin ((-)-trans-Phenothrin; 25-200 mg / kg; IP; 14 consecutive days) significantly dose-dependently increased oxidative DNA damage in two organs of animals [1]. D-Phenothrin (100, 300, or 1000 mg / kg / day; p.o. ; 3 days) does not cause adverse effects of estrogen or (anti) androgen.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.853 mL	14.267 mL	28.535 mL
5 mM	0.571 mL	2.853 mL	5.707 mL
10 mM	0.285 mL	1.427 mL	2.853 mL
50 mM	0.057 mL	0.285 mL	0.571 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Atmaca E, et al. d-Phenothrin-induced oxidative DNA damage in rat liver and kidney determined by HPLC-ECD/DAD. Environ Toxicol. 2015 May;30(5):607-13.
2. Yamada T, et al. Lack of estrogenic or (anti-)androgenic effects of d-phenothrin in the uterotrophic and Hershberger assays. Toxicology. 2003 Apr 22;186(3):227-39.

Inhibitors · Natural Compounds · Compound Libraries

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