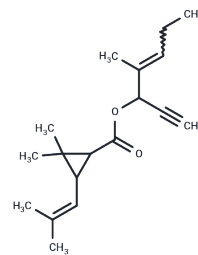


Empenthrin

Chemical Properties

CAS No. :	54406-48-3
Formula:	C ₁₈ H ₂₆ O ₂
Molecular Weight:	274.4
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Empenthrin, a synthetic pyrethroid used in insecticides, is active against broad spectrum of flying insects including moths and other pests damaging textile.
Targets(IC50)	Others,Parasite

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6443 mL	18.2216 mL	36.4431 mL
5 mM	0.7289 mL	3.6443 mL	7.2886 mL
10 mM	0.3644 mL	1.8222 mL	3.6443 mL
50 mM	0.0729 mL	0.3644 mL	0.7289 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tsuji R, Isobe N, Kawasaki H. Mechanism of prolongation of pentobarbital-induced sleeping time by empenthrin in mice. *Toxicology*. 1996 Apr 30;108(3):185-90. PubMed PMID: 8658537.

Tsuji R, Isobe N, Kurita Y, Hanai K, Yabusaki Y, Kawasaki H. Species difference in the inhibition of pentobarbital metabolism by empenthrin. *Environ Toxicol Pharmacol*. 1996 Dec 20;2(4):331-7. PubMed PMID: 21781739.

Kaneko H, Kawaguchi S, Misaki Y, Koyama Y, Nakayama A, Kawasaki H, Hirohashi A, Yoshitake A, Yamada H. [Mammalian toxicity of empenthrin (Vaporthrin, S-2852F)]. *J Toxicol Sci*. 1992 Nov;17 Suppl 3:313-34. Japanese. PubMed PMID: 1293329.

Sumita Y, Kawada H, Minakawa N. Mode of entry of a vaporized pyrethroid knockdown agent into the body of the housefly, *Musca domestica* (Diptera: Muscidae). *Appl Entomol Zool*. 2016;51(4):653-659. Epub 2016 Sep 20. PubMed PMID: 27818523; PubMed Central PMCID: PMC5073107.

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