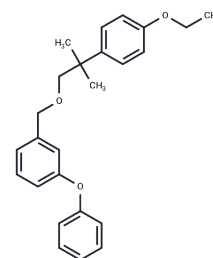


Etofenprox

Chemical Properties

CAS No. :	80844-07-1
Formula:	C ₂₅ H ₂₈ O ₃
Molecular Weight:	376.49
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	Etofenprox is an orally active non-ester pyrethroid insecticide. It is toxic to various pests including Diptera, with mild effects on mammals and fish. This compound promotes liver tumor formation in rats and increases microsomal ROS levels. It is suitable for agricultural pest control and malaria-related research.
Targets(IC50)	Others
In vitro	Etofenprox exhibits inductive toxicity against houseflies, with an ID50 of 23 ng per fly [1].
In vivo	Etofenprox (powder: 0.25, 0.5, and 1%. administered orally daily for 8 days) promotes liver tumor progression in male F344 rats by activating the CAR receptor, increasing microsomal ROS production, and thereby upregulating Nrf2 gene expression [2].

Solubility Information

Solubility	DMSO: 80 mg/mL (212.49 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---------------------------------------------------------------------------------------------------------------------------

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6561 mL	13.2806 mL	26.5611 mL
5 mM	0.5312 mL	2.6561 mL	5.3122 mL
10 mM	0.2656 mL	1.3281 mL	2.6561 mL
50 mM	0.0531 mL	0.2656 mL	0.5312 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

- Hemingway J. Efficacy of etofenprox against insecticide susceptible and resistant mosquito strains containing characterized resistance mechanisms. *Med Vet Entomol.* 1995 Oct;9(4):423-6.
- Hojo Y, et al. Liver tumor promoting effect of etofenprox in rats and its possible mechanism of action. *J Toxicol Sci.* 2012;37(2):297-306.
- Watanabe E, Baba K. Highly sensitive quantification of pyrethroid insecticide etofenprox in vegetables with high-performance liquid chromatography and fluorescence detection. *J Chromatogr A.* 2015 Mar 13;1385:35-41. doi: 10.1016/j.chroma.2015.01.056. Epub 2015 Jan 24. PubMed PMID: 25662063.
- Malhat F, Abdallah H, Nasr I. Estimation of etofenprox residues in tomato fruits by QuEChERS methodology and HPLC-DAD. *Bull Environ Contam Toxicol.* 2012 Jun;88(6):891-3. doi: 10.1007/s00128-012-0627-6. Epub 2012 Apr 4. PubMed PMID: 22476259.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481