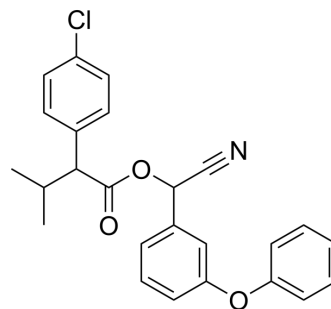


Fenvalerate

Cat. No.:	HY-B2006		
CAS No.:	51630-58-1		
Molecular Formula:	C ₂₅ H ₂₂ ClNO ₃		
Molecular Weight:	419.9		
Target:	Phosphatase; Bacterial		
Pathway:	Metabolic Enzyme/Protease; 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 (238.15 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.3815 mL	11.9076 mL	23.8152 mL
		5 mM		0.4763 mL	2.3815 mL	4.7630 mL
10 mM			0.2382 mL	1.1908 mL	2.3815 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.95 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.95 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Fenvalerate is a potent protein phosphatase 2B (calcineurin) inhibitor with an IC ₅₀ of 2-4 nM for PP2B-Aα. Fenvalerate is a pyrethroid ester insecticide and acaricide ^[1] .
In Vitro	Fenvalerate is inactive for PP2B-Bβ ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. E Enan, et al. Specific Inhibition of Calcineurin by Type II Synthetic Pyrethroid Insecticides. *Biochem Pharmacol.* 1992 Apr 15;43(8):1777-84.

[2]. A R Reilein, et al. Regulation of Organelle Movement in Melanophores by Protein Kinase A (PKA), Protein Kinase C (PKC), and Protein Phosphatase 2A (PP2A). *J Cell Biol.* 1998 Aug 10;142(3):803-13.

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

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