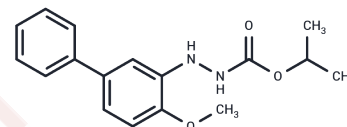


Bifenazate

Chemical Properties

CAS No. :	149877-41-8
Formula:	C ₁₇ H ₂₀ N ₂ O ₃
Molecular Weight:	300.35
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	Bifenazate is a positive allosteric modulator of GABA receptor. Bifenazate is an acaricide that controls 100% of mites at a concentration of 25 ppm.
Targets(IC50)	ATPase,GABA Receptor,Mitochondrial Metabolism,ROS

Solubility Information

Solubility	H ₂ O: < 0.1 mg/mL (insoluble) DMSO: 250 mg/mL (832.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (16.65 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3294 mL	16.6472 mL	33.2945 mL
5 mM	0.6659 mL	3.3294 mL	6.6589 mL
10 mM	0.3329 mL	1.6647 mL	3.3294 mL
50 mM	0.0666 mL	0.3329 mL	0.6659 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

Dekeyser, M.A., McDonald, P.T., and Angle, G.W., Jr. The discovery of bifenazate, a novel carbazate acaricide
Chimia 57(11), 702-704 (2003).

Hiragaki S, et al. A novel action of highly specific acaricide; bifenazate as a synergist for a GABA-gated chloride channel of *Tetranychus urticae* [Acari: Tetranychidae]. *Neurotoxicology*. 2012 Jun;33(3):307-13.

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