

Product Data Sheet

Product Name: (E)-Fenpyroximate

Cat. No.: GC46335

Chemical Properties

Cas. No. 134098-61-6

SMILES O=C(OC(C)(C)C)C1=CC=C(CO/N=C/C2=C(OC3=CC=CC=C3)N(C)N=C2C)C=C1

Formula C₂₄H₂₇N₃O₄

M.Wt 421.5

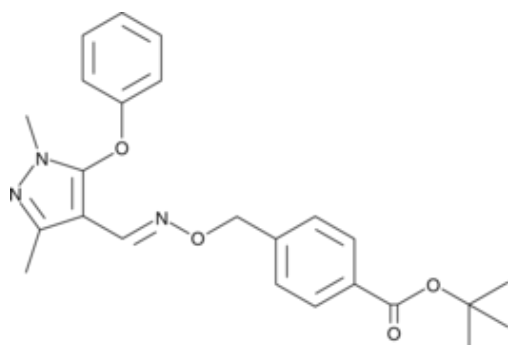
Solubility DMSO : 100 mg/mL (237.25 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

(E)-Fenpyroximate is a phenoxypyrazole acaricide.¹ It is lethal to mobile adult phytophagous mites of the genera *Tetranychidae*, *Eriophyidae*, and *Tarsonemidae* and inhibits molting at immature stages. (E)-Fenpyroximate reduces the number of eggs laid per female and is lethal to female *A. swirskii* predatory mites.² It is also selectively lethal to worker over queen honey bees (LD₅₀s = 30 and >1,620 µg/g, respectively).³ (E)-Fenpyroximate induces cell death in marine flounder (*P. olivaceus*) gill cells (IC₅₀ = 800-1,250 nM) and is lethal to adult living flounder (LC₅₀ = 28.84 nM in seawater).⁴

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

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1.Konno, T., Kuriyama, K., and Hamaguchi, H.Fenpyroximate (NNI-850), a new acaricideBrighton Crop Protection Conference, Pests and Diseases171-78(1990) 2.Lopez, L., Smith, H.A., Hoy, M.A., et al.Acute toxicity and sublethal effects of fenpyroximate to Amblyseius swirskii (Acari: Phytoseiidae)J. Econ. Entomol.108(3)1047-1053(2015) 3.Dahlgren, L., Johnson, R.M., Siegfried, B.D., et al.Comparative toxicity of acaricides to honey bee (Hymenoptera: Apidae) workers and queensJ. Econ. Entomol.105(6)1895-1902(2012) 4.Na, N., Guo, H., Zhang, S., et al.In vitro and in vivo acute toxicity of fenpyroximate to flounder Paralichthys olivaceus and its gill cell line FGAquat. Toxicol.92(2)76-85(2009)

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