

Product Data Sheet

Product Name: Fenpropimorph

Cat. No.: GC47339

Chemical Properties

Cas. No. 67564-91-4

SMILES CC(CC1=CC=C(C(C)(C)C)C=C1)CN2C[C@@H](C)O[C@@H](C)C2

Formula C₂₀H₃₃NO

M.Wt 303.5

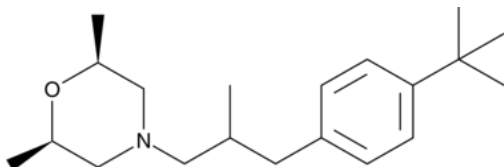
Solubility DMF: 15 mg/ml, DMSO: 5 mg/ml, Ethanol: 15 mg/ml, Ethanol: PBS (pH 7.2)(1:2): 0.3 mg/ml

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

Fenpropimorph is a fungicide that inhibits the sterol pathway.¹ It inhibits δ^8 - δ^7 -sterol isomerase in yeast at low concentrations, with δ^{14} -sterol reductase being blocked at higher levels, preventing the biosynthesis of ergosterol.² Fenpropimorph is also able to inhibit sterol synthesis in certain plants and mammalian cells.^{1,3}

1. Costet, M.F., Achouri, M.E., Charlet, M., et al. Ecdysteroid biosynthesis and embryonic development are disturbed in insects (*Locusta migratoria*) reared on plant diet (*Triticum sativum*) with a selectively modified sterol profile. *Proc. Natl. Acad. Sci. USA* 84(3):643-647 (1987).
2. Marcireau, C., Guilloton, M., and Karst, F. In vivo effects of fenpropimorph on the yeast *Saccharomyces cerevisiae* and determination of the molecular basis of the antifungal property. *Antimicrob. Agents*

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

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Chemother.34(6)989-993(1990) 3.Corio-Costet, M.F., Gerst, N., Benveniste, P., et al.Inhibition by the fungicide fenpropimorph of cholesterol biosynthesis in 3T3 fibroblastsBiochem J.256(3)829-834(1988)

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