

Product Data Sheet

Product Name: Pyridaben

Cat. No.: GC48015

Chemical Properties

Cas. No. 96489-71-3

SMILES CC(C)(C)C1=CC=C(CSC2=C(Cl)C(N(C(C)(C)C)N=C2)=O)C=C1

Formula C₁₉H₂₅ClN₂OS

M.Wt 364.9

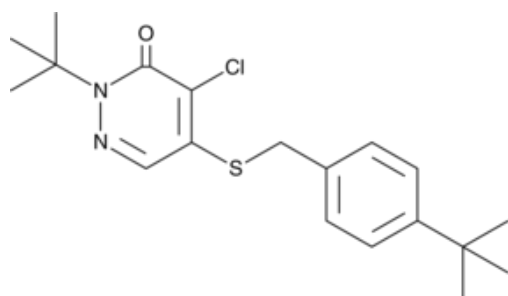
Solubility Chloroform: Slightly Soluble

Storage 4°C, protect from light

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

Pyridaben is a METI acaricide that inhibits mitochondrial electron transport at complex I (METI; $K_i = 0.36$ nmol/mg protein in rat brain mitochondria).¹ It is active against a variety of mites, inducing 100% mortality of *C. malaccensis*, *D. farina*, and *T. putrescentia* when administered *via* filter paper contact at doses of 25, 100, and 200 mg/m³, respectively.² Pyridaben is toxic to rats when administered orally (LD₅₀s = 570 and 1,100 for female and male rats, respectively) and *via* inhalation (LD₅₀s = 0.62 and 0.66 mg/L for female and male rats, respectively).³ Formulations containing pyridaben have been used in the control of mites in agriculture.

1. Navarro, A., Báñez, M.J., Gómez, C., et al. Effects of rotenone and pyridaben on complex I

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

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electron transfer and on mitochondrial nitric oxide synthase functional activityJ. Bioenerg. Biomembr.42(5)405-412(2010) 2.Takahashi, M., Shono, T., and Umehara, T.Efficacy of pyridaben against three kinds of mites, Cheyletus malaccensis, Dermatophagoides farinae and Tyrophagus putrescentiaeJpn. J. Sanit. Zool.41(3)257-260(1990) 3.Igarashi, H., and Sakamoto, S.Summary of toxicity studies with pyridabenJ. Pest. Scien.19(4)S243-S251(1994)

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