

Product Data Sheet

Product Name: Kresoxim-methyl

Cat. No.: GC47531

Chemical Properties

Cas. No. 143390-89-0

SMILES CO/N=C(C(OC)=O)\C1=CC=CC=C1COC2=CC=CC=C2C

Formula C₁₈H₁₉NO₄

M.Wt 313.4

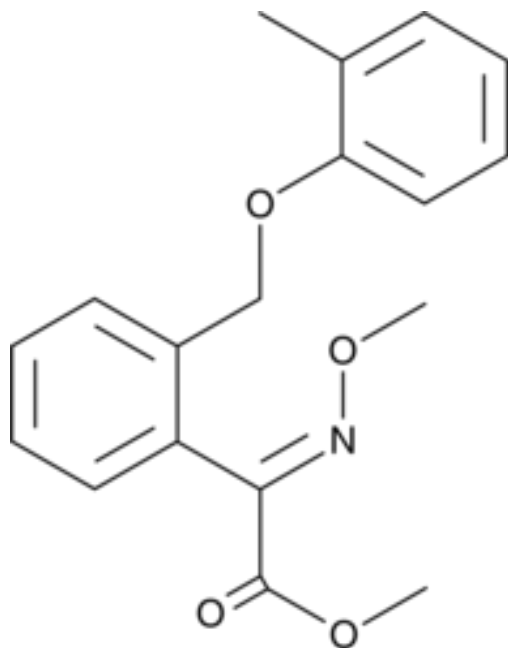
Solubility Chloroform: Slightly Soluble,
Methanol: Slightly Soluble

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

Kresoxim-methyl is a strobilurin fungicide.¹ It inhibits conidial germination of *V. inaequalis* isolates from apple orchards (EC₅₀s = 0.00033-0.0078 mg/L). Kresoxim-methyl also inhibits mycelial growth

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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(EC₅₀ = 0.240 mg/L) and is fungicidal against *Saprolegnia* (MIC = 1 mg/L).² It increases intracellular calcium levels and disrupts the mitochondrial membrane potential in mouse cortical cultures in a concentration-dependent manner.³ Kresoxim-methyl is toxic to goldfish (*C. auratus*; LC₅₀ = 0.807 mg/L).²

1.Fiaccadori, R., Cicognani, E., Alberoni, G., et al.Sensitivity to strobilurin fungicides of Italian *Venturia inaequalis* populations with different origin and scab controlPest Manag. Sci.67(5)535-540(2011) 2.Hu, X.-G., Liu, L., Hu, K., et al.In vitro screening of fungicidal chemicals for antifungal activity against *Saprolegnia*J. World Aquac. Soc.44(4)528-535(2013) 3.Regueiro, J., Olguín, N., Simal-Gándara, J., et al.Toxicity evaluation of new agricultural fungicides in primary cultured cortical neuronsEnviron. Res.14037-44(2015)

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