

Product Data Sheet

Product Name: Fumitremorgin B

Cat. No.: GC47377

Chemical Properties

Cas. No. 12626-17-4

SMILES COC1=CC=C(C(N2C/C=C(C)\C)=C1)C3=C2[C@H](/C=C(C)\C)N(C([C@@]4([H])N5CC(C4)=O)[C@]([C@H]3O)(O)C5=O

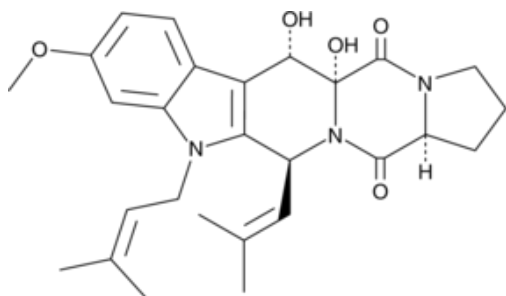
Formula C₂₇H₃₃N₃O₅ M.Wt 479.6

Solubility DMSO: Soluble, Methanol: Soluble Storage Store at -20°C

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

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

Structure



Background

Fumitremorgin B is a mycotoxin originally isolated from *A. fumigatus*.^{1,2} It induces tremors in and is lethal to mice (LD₅₀ = 5.4 mg/kg, i.v.). It is also toxic to brine shrimp (LC₅₀ = 13.6 µg/ml).³

Fumitremorgin B is active against the phytopathogenic fungi *B. cinerea*, *A. solani*, *A. alternata*, *C. gloeosporioides*, *F. solani*, *F. oxysporum*, and *G. saubinettii* (MICs = 6.25-100 µg/ml). It has antifeedant activity against armyworm (*M. separata*) larvae when applied to fresh wheat leaves. Fumitremorgin B inhibits the proliferation of U937 and PC3 cells (IC₅₀s = 14.12 and 43.36 µM, respectively).⁴

1. Yamazaki, M., Suzuki, S., and Miyaki, K. Tremorgenic toxins from *Aspergillus fumigatus* FresChem.

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

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Pharm. Bull. (Tokyo)19(8)1739-1740(1971) 2.Yamazaki, M., and Suzuki, S.Toxicology of tremorgenic mycotoxins, fumitremorgin A and BDev. Toxicol. Environ. Sci.12273-282(1986) 3.Li, X.-J., Zhang, Q., Zhang, A.-L., et al.Metabolites from Aspergillus fumigatus, an endophytic fungus associated with Melia azedarach, and their antifungal, antifeedant, and toxic activitiesJ. Agric. Food Chem.60(13)3424-3431(2012) 4.Wang, Y., Li, Z.-L., Bai, J., et al.2,5-diketopiperazines from the marine-derived fungus Aspergillus fumigatus YK-7Chem. Biodivers.9(2)85-93(2012)

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