

Product Data Sheet

Product Name: Tubermycin B

Cat. No.: GC48911

Chemical Properties

Cas. No. 2538-68-3

SMILES O=C(C1=C2N=C3C=CC=CC3=NC2=CC=C1)O

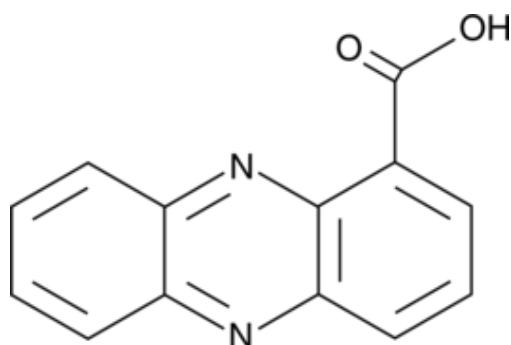
Formula C₁₃H₈N₂O₂ M.Wt 224.2

Solubility DMF: 1 mg/ml, DMSO: 1 mg/ml, DMSO:PBS (pH 7.2) (1:5): 0.16 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

Tubermycin B is a bacterial metabolite that has been found in *Pseudomonas* and has antifungal and fungicidal activities.^{1,2} It is active against *A. flavus*, *C. albicans*, and *T. rubrum* (MICs = 64, 8, and 4 µg/ml, respectively), as well as the plant pathogenic fungi *F. oxysporum* and *R. solani* (MICs = 125 and 32 µg/ml, respectively).¹ Tubermycin B (10-500 µg/ml) prevents the development of foliar anthracnose lesions in cucumber plants infected with the plant pathogenic fungus *C. orbiculare*.² Formulations containing tubermycin B have been used as fungicides in agriculture.

1. Gorantla, J.N., Kumar, S.N., Nisha, G.V., et al. Purification and characterization of antifungal

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

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phenazines from a fluorescent *Pseudomonas* strain FPO4 against medically important fungi. *J. Mycol. Med.* 24(3):185-192(2014) 2. Lee, J.Y., Moon, S.S., and Hwang, B.K. Isolation and in vitro and in vivo activity against *Phytophthora capsici* and *Colletotrichum orbiculare* of phenazine-1-carboxylic acid from *Pseudomonas aeruginosa* strain GC-B26. *Pest. Manag. Sci.* 59(8):872-882(2003)

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