

Product Data Sheet

Product Name: Massarigenin C

Cat. No.: GC47600

Chemical Properties

Cas. No. 496926-08-0

SMILES O=C1C=C[C@@H](C)[C@@]2([C@@H](O)C(OC2=O)=C)[C@H]1O

Formula C₁₁H₁₂O₅

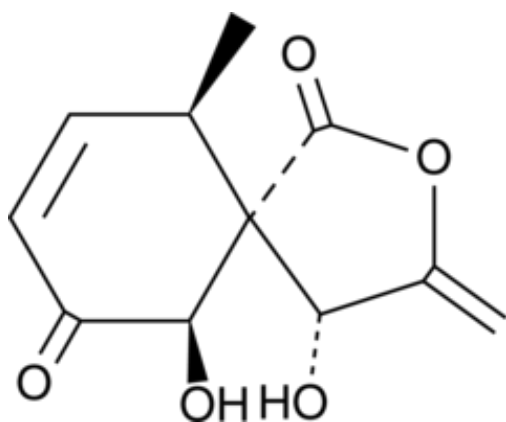
M.Wt 224.2

Solubility Dichloromethane: soluble, DMSO: soluble, Ethanol: soluble, Methanol: 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

Massarigenin C is a fungal metabolite that has been found in *M. flavorosea* and has enzyme inhibitory activities.^{1,2} Massarigenin C inhibits neuraminidase *in vitro* (IC₅₀ = 4.15 μM).² It is also an inhibitor of yeast α-glucosidase (IC₅₀ = 1.25 mM).¹ It reduces the postprandial peak in blood glucose levels in an oral sucrose tolerance test in normo- and hyperglycemic mice when administered at doses of 3.2, 10, and 31.6 mg/kg.

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

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1. Verastegui-Omaña, B., Rebollar-Ramos, D., Pérez-Vásquez, A., et al. α -Glucosidase inhibitors from *Malbranchea flavorose* J. Nat. Prod. 80(1)190-195(2017) 2. Zhang, G.F., Han, W.B., Cui, J.T., et al. Neuraminidase inhibitory polyketides from the marine-derived fungus *Phoma herbaru* Planta Med. 78(1)76-78(2012)

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