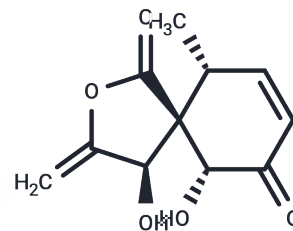


## Massarigenin C

## Chemical Properties

CAS No. :	496926-08-0
Formula:	C <sub>11</sub> H <sub>12</sub> O <sub>5</sub>
Molecular Weight:	224.21
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Massarigenin C is a fungal metabolite that has been found in <i>M. flavorosea</i> and has enzyme inhibitory activities. 1,2 Massarigenin C inhibits neuraminidase in vitro (IC <sub>50</sub> = 4.15 μM). 2 It is also an inhibitor of yeast α-glucosidase (IC <sub>50</sub> = 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.
Targets (IC <sub>50</sub> )	Others, Antibacterial

## Solubility Information

Solubility	Ethanol: Soluble Methanol: Soluble DMSO: Soluble Dichloromethane: Soluble ( < 1 mg/ml refers to the product slightly soluble or insoluble )
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4601 mL	22.3005 mL	44.601 mL
5 mM	0.892 mL	4.4601 mL	8.9202 mL
10 mM	0.446 mL	2.2301 mL	4.4601 mL
50 mM	0.0892 mL	0.446 mL	0.892 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Verastegui-Omaña, B., Rebollar-Ramos, D., Pérez-Vásquez, A., et al.  $\alpha$ -Glucosidase inhibitors from *Malbranchea flavorose*. *Nat. Prod.* 80(1)190-195(2017)

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)

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481