

Product Data Sheet

Product Name: Phillyrin (Forsythin)

Cat. No.: GC38421

Chemical Properties

Cas. No. 487-41-2

SMILES COC(C=C1[C@@H]2[C@](CO[C@H]3C4=CC(OC)=C(OC)C=C4)([H])[C@]3([H])CO2)=C(C=C1)O[C@@H]([C@@H]([C@@H](O)[C@@H]5O)O)O[C@@H]5CO

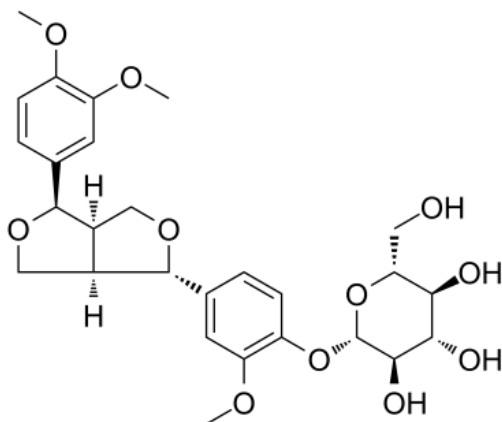
Formula $C_{27}H_{34}O_{11}$ M.Wt 534.55

Solubility DMSO: 260 mg/mL (486.39 mM) 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



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

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Background

Phillyrin is isolated from *Forsythia suspensa* Vahl (Oleaceae), has antibacterial and anti-inflammatory activities. Phillyrin has potential inductive effects on rat CYP1A2 and CYP2D1 activities, without affecting CYP2C11 and CYP3A1/2 activities[1].

Phillyrin (1-5 μ M; pretreatment 1 hour; 24 hours) inhibits high glucose-induced FAS protein significantly in HepG2 cells[1]. Phillyrin (1-5 μ M; pretreatment 1 hour; 24 hours) inhibits high glucose-induced FAS mRNA expression by suppressing SREBP-1c activation in human HepG2 hepatocytes[1]. RT-PCR[1] Cell Line: Human HepG2 hepatocyte cells

[1]. Cheng Y, et al. Effects of phillyrin and forsythoside A on rat cytochrome P450 activities in vivo and in vitro. *Xenobiotica*. 2017 Apr;47(4):297-303. [2]. Do MT, et al. Phillyrin attenuates high glucose-induced lipid accumulation in human HepG2 hepatocytes through the activation of LKB1/AMP-activated protein kinase-dependent signalling. *Food Chem*. 2013 Jan 15;136(2):415-25.

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