

Product Data Sheet

Product Name: 3-Deoxysappanchalcone

Cat. No.: GC35109

Chemical Properties

Cas. No. 112408-67-0

SMILES O=C(C1=CC=C(O)C=C1OC)/C=C/C2=CC=C(O)C=C2.[(E)]

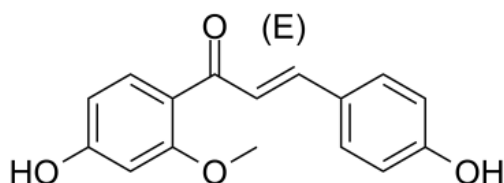
Formula $C_{16}H_{14}O_4$ M.Wt 270.28

Solubility DMSO : 50 mg/mL (184.99 mM; Need ultrasonic) 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

3-Deoxysappanchalcone is a naturally-occurring chalcone compound isolated from *Caesalpinia sappan* L. (Leguminosae), which possesses anti-allergic, antiviral, anti-inflammatory and antioxidant activities. 3-Deoxysappanchalcone exerts anti-inflammatory activity via induce heme oxygenase-1 (HO-1) expression by activating the AKT/mTOR pathway in murine macrophages. 3-Deoxysappanchalcone also exhibits anti-influenza virus activity (H3N2, IC₅₀ = 1.06 μM)[1][2]. IC₅₀: 1.06 μM (H3N2)[2]

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

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[1]. Kim JH, et al. The anti-inflammatory effect of 3-deoxysappanchalcone is mediated by inducing heme oxygenase-1 via activating the AKT/mTOR pathway in murine macrophages. *Int Immunopharmacol.* 2014 Oct;22(2):420-6. [2]. Liu AL, et al. In vitro anti-influenza viral activities of constituents from *Caesalpinia sappan*. *Planta Med.* 2009 Mar;75(4):337-9.

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