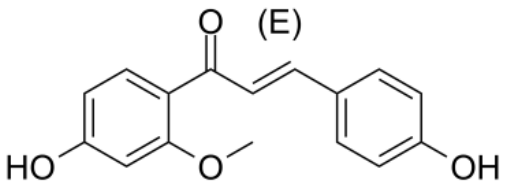
Product Data Sheet

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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