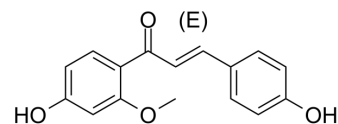


## 3-Deoxysappanchalcone

Cat. No.:	HY-N1745A
CAS No.:	112408-67-0
Molecular Formula:	C <sub>16</sub> H <sub>14</sub> O <sub>4</sub>
Molecular Weight:	270.28
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

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

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		3.6999 mL	18.4993 mL	36.9987 mL
	5 mM		0.7400 mL	3.6999 mL	7.3997 mL
	10 mM		0.3700 mL	1.8499 mL	3.6999 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

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, IC<sub>50</sub> = 1.06 μM)<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 1.06 μM (H3N2)<sup>[2]</sup>

### CUSTOMER VALIDATION

- Oxid Med Cell Longev. 26 Nov 2022.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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

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