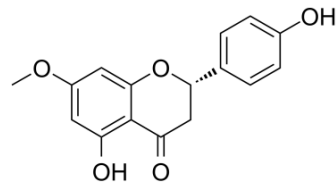


## Sakuranetin

Cat. No.:	HY-N3006
CAS No.:	2957-21-3
Molecular Formula:	C <sub>16</sub> H <sub>14</sub> O <sub>5</sub>
Molecular Weight:	286.28
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the COA.



### Solvent & Solubility

#### In Vitro

DMSO : ≥ 125 mg/mL (436.64 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.4931 mL	17.4654 mL	34.9308 mL
	5 mM	0.6986 mL	3.4931 mL	6.9862 mL
	10 mM	0.3493 mL	1.7465 mL	3.4931 mL

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

#### In Vivo

- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**  
Solubility: ≥ 2.08 mg/mL (7.27 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**  
Solubility: ≥ 2.08 mg/mL (7.27 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**  
Solubility: ≥ 2.08 mg/mL (7.27 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Sakuranetin is a rice flavonoid phytoalexin, shows strong antifungal activity<sup>[1]</sup>. Sakuranetin has anti-inflammatory and antioxidative activities. Sakuranetin ameliorates LPS-induced acute lung injury<sup>[2]</sup>.

### REFERENCES

- [1]. Hasegawa M, et al. Analysis on blast fungus-responsive characters of a flavonoid phytoalexin sakuranetin; accumulation in infected rice leaves, antifungal

---

activity and detoxification by fungus. *Molecules*. 2014 Aug 4;19(8):11404-18.

[2]. Bittencourt-Mernak MI, et al. Prophylactic and therapeutic treatment with the flavonone sakuranetin ameliorates LPS-induced acute lung injury. *Am J Physiol Lung Cell Mol Physiol*. 2017 Feb 1;312(2):L217-L230.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA