



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

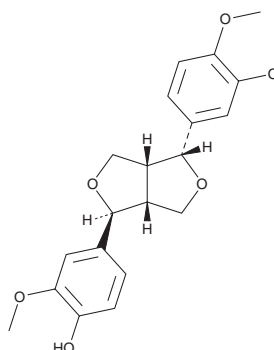
# PRODUCT INFORMATION



## Phillygenin

Item No. 30698

**CAS Registry No.:** 487-39-8  
**Formal Name:** 4-[(1S,3aR,4R,6aR)-4-(3,4-dimethoxyphenyl)tetrahydro-1H,3H-furo[3,4-c]furan-1-yl]-2-methoxy-phenol  
**Synonyms:** Epipinoresinol methyl ether, (+)-Phillygenin  
**MF:** C<sub>21</sub>H<sub>24</sub>O<sub>6</sub>  
**FW:** 372.4  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 232 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥4 years  
**Item Origin:** Plant/*Forsythia suspensa* (Thunb.) Vahl



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Phillygenin is supplied as a crystalline solid. A stock solution may be made by dissolving the phillygenin in the solvent of choice, which should be purged with an inert gas. Phillygenin is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of phillygenin in these solvents is approximately 30 mg/ml.

Phillygenin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, phillygenin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Phillygenin has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Phillygenin is a lignan that has been found in *F. fructus* and has diverse biological activities.<sup>1-3</sup> It scavenges peroxide and DPPH (Item No. 14805) radicals in cell-free assays (IC<sub>50</sub>s = 10.5 and 19.1 μM, respectively).<sup>1</sup> Phillygenin (25-200 μg/ml) inhibits LPS-induced production of IL-1β, IL-6, TNF-α, and the fibrosis markers collagen I and α-SMA in LX-2 hepatic stellate cells.<sup>2</sup> It also reduces serum levels of alanine aminotransferase (ALT), aspartate aminotransferase (AST), superoxide dismutase (SOD), and malondialdehyde (MDA) and prevents hepatic necrosis in a mouse model of carbon tetrachloride-induced liver injury.<sup>3</sup>

### References

1. Hung, C.-Y., Tsai, Y.-C., and Li, K.-Y. Phenolic antioxidants isolated from the flowers of *Osmanthus fragrans*. *Molecules* **17**(9), 10724-10737 (2012).
2. Hu, N., Wang, C., Dai, X., et al. Phillygenin inhibits LPS-induced activation and inflammation of LX2 Cells by TLR4/MyD88/NF-κB signaling pathway. *J. Ethnopharmacol.* **248**, 112361 (2020).
3. Song, W., Wu, J., Yu, L., et al. Evaluation of the pharmacokinetics and hepatoprotective effects of phillygenin in mouse. *Biomed. Res. Int.* 7964318 (2018).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 4/06/2023

#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
[WWW.CAYMANCHEM.COM](http://WWW.CAYMANCHEM.COM)