



# 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) 

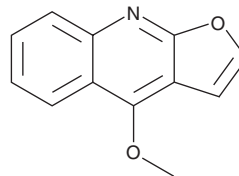
# PRODUCT INFORMATION



## Dictamnine

Item No. 34646

CAS Registry No.: 484-29-7  
Formal Name: 4-methoxy-furo[2,3-b]quinoline  
MF: C<sub>12</sub>H<sub>9</sub>NO<sub>2</sub>  
FW: 199.2  
Purity: ≥95%  
Supplied as: A solid  
Storage: -20°C  
Stability: ≥4 years  
Item Origin: Synthetic



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

### Laboratory Procedures

Dictamnine is supplied as a solid. A stock solution may be made by dissolving the dictamnine in the solvent of choice, which should be purged with an inert gas. Dictamnine is soluble in chloroform.

### Description

Dictamnine is an alkaloid that has been found in *D. dasycarpus* and has diverse biological activities.<sup>1-3</sup> It inhibits platelet aggregation induced by arachidonic acid (Item Nos. 90010 | 90010.1 | 10006607), collagen, thrombin, or platelet-activating factor (PAF) in washed isolated rabbit platelets when used at a concentration of 100 µg/ml.<sup>2</sup> Dictamnine is cytotoxic to human KB oral, HeLa cervical, and DLD-1 colon cancer cells (EC<sub>50</sub>s = 20.55, 2.5, and 6.4 µg/ml, respectively) and induces apoptosis in A549, PC-9, and EBC-1 human lung cancer cells when used at concentrations ranging from 50 to 200 µM.<sup>1,2</sup> It increases serum alanine aminotransferase (ALT) and alkaline phosphatase (ALP) activities and induces hepatocyte necrosis in mice when administered at doses of 150 or 200 mg/kg.<sup>3</sup>

### References

1. Yu, J., Zhang, L., Peng, J., *et al.* Dictamnine, a novel c-Met inhibitor, suppresses the proliferation of lung cancer cells by downregulating the PI3K/AKT/mTOR and MAPK signaling pathways. *Biochem. Pharmacol.* **195**, 114864 (2022).
2. Wu, T.-S., Shi, L.-S., Wang, J.-J., *et al.* Cytotoxic and antiplatelet aggregation principles of *Ruta graveolens*. *J. Chin. Chem. Soc.* **50(1)**, 171-178 (2003).
3. Lin, Q., Guan, H., Ma, C., *et al.* Biotransformation patterns of dictamnine *in vitro/in vivo* and its relative molecular mechanism of dictamnine-induced acute liver injury in mice. *Environ. Toxicol. Pharmacol.* **85**, 103628 (2021).

#### 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, 09/30/2022

#### 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