



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
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- 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) 

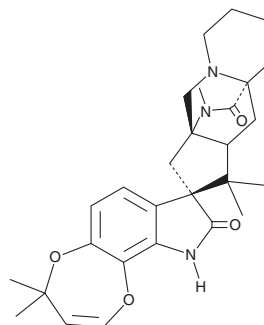
# PRODUCT INFORMATION



## Marcfortine A

Item No. 23486

**CAS Registry No.:** 75731-43-0  
**Formal Name:** (2'R,3'aS,9'aS,10'aS)-6',7',8',9',10',10'a-hexahydro-1',1',4,4,12'-pentamethyl-spiro[4H,8H-[1,4]dioxepino[2,3-g]indole-8,2'(3'H)-[1H,4H-3a,9a](iminomethano)cyclopenta[b]quinolizine]-9,11'(10H)-dione  
**Synonyms:** NSC 324645  
**MF:** C<sub>28</sub>H<sub>35</sub>N<sub>3</sub>O<sub>4</sub>  
**FW:** 477.6  
**Purity:** ≥99%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years



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

### Laboratory Procedures

Marcfortine A is supplied as a solid. A stock solution may be made by dissolving the marcfortine A in the solvent of choice. Marcfortine A is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide.

### Description

Marcfortine A is an indole alkaloid originally isolated from *P. roqueforti*.<sup>1</sup> It has nematocidal activity against the parasitic nematode *H. contortus* (LD<sub>99</sub> = 0.06 µg/ml) and inhibits motility of adult worms (EC<sub>50</sub> = 2 µM).<sup>2,3</sup> Marcfortine A eliminates *H. contortus*, *T. colubriformis*, and *O. ostertagi* from experimentally infected jirds (ED<sub>95</sub>s = 0.33, 0.11, and 2.5 mg/animal, respectively).<sup>3</sup> It dose-dependently inhibits nicotine-induced calcium mobilization in SH-SY5Y and TE-671 cells expressing α<sub>3</sub> subunit-containing human nicotinic acetylcholine receptors (nAChRs) and muscle-type nAChRs, respectively.<sup>4</sup>

### References

1. Polonsky, J., Merrien, M.-A., Prangé, T., *et al.* Isolation and structure (X-ray analysis) of marcfortine A, a new alkaloid from *Penicillium roqueforti*. *J.C.S. Chem. Comm.* **0(13)**, 601-602 (1980).
2. Capon, R.J., Skene, C., Stewart, M., *et al.* Aspergillicins A-E: Five novel depsipeptides from the marine-derived fungus *Aspergillus carneus*. *Org. Biomol. Chem.* **1(11)**, 1856-1862 (2003).
3. Johnson, S.S., Coscarelli, E.M., Davis, J.P., *et al.* Interrelationships among physicochemical properties, absorption and anthelmintic activities of 2-desoxoparaherquamide and selected analogs. *J. Vet. Pharmacol. Ther.* **27(3)**, 169-181 (2004).
4. Zinser, E.W., Wolf, M.L., Alexander-Bowman, S.J., *et al.* Anthelmintic paraherquamides are cholinergic antagonists in gastrointestinal nematodes and mammals. *J. Vet. Pharmacol. Ther.* **25(4)**, 241-250 (2002).

#### 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.

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#### 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