



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

www.szabo-scandic.com

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

PRODUCT INFORMATION

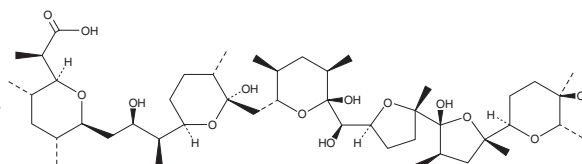


Alborixin

Item No. 40933

CAS Registry No.: 57760-36-8

Formal Name: (αR,2S,3S,5R,6S)-6-[(2R,3S)-3-[(2R,5S,6R)-6-[[[(2R,3S,5R,6R)-6-[(R)-[(2S,2'R,3'R,5S,5'S)-5'-[(2R,5R,6S)-6-ethyltetrahydro-5-hydroxy-5-methyl-2H-pyran-2-yl]octahydro-2'-hydroxy-2,3',5'-trimethyl[2,2'-bifuran]-5-yl]hydroxymethyl]tetrahydro-6-hydroxy-3,5-dimethyl-2H-pyran-2-yl]methyl]tetrahydro-6-hydroxy-5-methyl-2H-pyran-2-yl]-2-hydroxybutyl]tetrahydro-α,3,5-trimethyl-2H-pyran-2-acetic acid



MF: C₄₈H₈₄O₁₄

FW: 885.2

Purity: ≥70%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

Item Origin: Bacterium/*Streptomyces lasii*

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

Laboratory Procedures

Alborixin is supplied as a solid. A stock solution may be made by dissolving the alborixin in the solvent of choice, which should be purged with an inert gas. Alborixin is soluble in ethanol, methanol, dichloromethane, and DMSO.

Description

Alborixin is an ionophore originally isolated from *S. albus* that has diverse biological activities.¹⁻⁴ It is active against *B. cereus*, *B. megaterium*, *S. lactis*, *S. aureus*, and *C. xerosis* (MIC_{50s} = 0.4, <0.1, 0.8, 0.2, 0.8 mg/kg, respectively).¹ Alborixin decreases the proliferation of eight cancer cell lines (IC_{50s} = 3.2 to 15.4 μM).² It induces apoptosis, decreases the mitochondrial membrane potential, and increases the levels of reactive oxygen species (ROS) in HCT116 colon cancer cells when used at a concentration of 5 μM. Alborixin (1 mg/kg) increases heart rate, right ventricular contractile force, systolic and diastolic arterial blood pressure, and plasma levels of glucose in the coronary sinus and hepatic veins, as well as decreases the QT interval and plasma levels of potassium and sodium, but not calcium, in the coronary sinus and hepatic, renal, and deep femoral veins in normotensive dogs.³ It reduces the number of *C. parvum* oocytes in *C. parvum*-infected mice when administered at doses of 1.5 or 2.5 mg/kg.⁴ Alborixin is toxic to mice (LD₅₀ = 150 mg/kg).¹

References

1. Delhomme, C., Kergomard, A., Kergomard, G., et al. *J. Antibiot. (Tokyo)* **29(7)**, 692-695 (1976).
2. Shah, A.M., Wani, A., Qazi, P.H., et al. *Chem. Biol. Interact.* **256**, 198-208 (2016).
3. Moins, N., Gachon, P., and Duchene-Marullaz, P. *J. Cardiovasc. Pharmacol.* **1(6)**, 659-671 (1979).
4. Blagburn, B.L., Sundermann, C.A., Lindsay, D.S., et al. *Antimicrob. Agents Chemother.* **35(7)**, 1520-1523 (1991).

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, 06/18/2024

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