



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) 

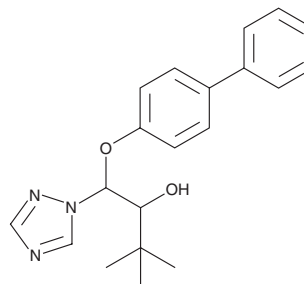
PRODUCT INFORMATION



Bitertanol

Item No. 24054

CAS Registry No.: 55179-31-2
Formal Name: β -([1,1'-biphenyl]-4-yloxy)- α -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol
Synonym: Biloxazol
MF: C₂₀H₂₃N₃O₂
FW: 337.4
Purity: \geq 98%
Supplied as: A solid
Storage: -20°C
Stability: \geq 4 years



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

Laboratory Procedures

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

Description

Bitertanol is a broad-spectrum triazole fungicide that is active against a variety of fungi, including *V. inaequalis* and *V. pirina*, which are responsible for apple and pear scab, respectively, as well as *S. mors-uvae* and *P. ribis*, which are responsible for American gooseberry mildew and leaf spot in black currants, respectively.¹ It is active against isolates of *V. inaequalis* (MICs = 0.6 and 1 μ g/ml) but repeated use leads to resistance and cross-resistance (MICs = 9.8-13 μ g/ml for bitertanol-resistant isolates).² Bitertanol inhibits the cytochrome P450 (CYP450) isoform CYP3A4 (IC₅₀ = 2.74 μ M) and inhibits androgenic activity induced by the androgen receptor agonist DHT (Item No. 15874) in a yeast two-hybrid assay (IC₅₀ = 79.85 μ M).³ In rats, bitertanol (10-300 mg/kg, i.p.) increases operant responding on one- and five-minute fixed interval schedules with no effect on motor activity.⁴

References

1. Birch, P.A., Rose, P.W., and Wainwright, A. A broad spectrum fungicide of the triazole group for use in pome and bush fruit. *Brit. Crop Prot. Conf. - Pests and Dis., Proc.* **11(2)**, 545-554 (1981).
2. Hildebrand, P.D., Lockhart, C.L., Newberry, R.J., et al. Resistance of *Venturia inaequalis* to bitertanol and other demethylation-inhibiting fungicides. *Can. J. Plant Path.* **10(4)**, 311-316 (1988).
3. Lv, X., Pan, L., Wang, J., et al. Effects of triazole fungicides on androgenic disruption and CYP3A4 enzyme activity. *Environ. Pollut.* **222(2016)**, 504-512 (2017).
4. Allen, A.R. and MacPhail, R.C. Bitertanol, a triazole fungicide, increases operant responding but not motor activity. *Neurotoxicol. Teratol.* **15(4)**, 237-242 (1993).

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, 10/24/2022

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