

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 in



PRODUCT INFORMATION



Bifenazate-d₅ Item No. 39592

Formal Name: 2-(4-methoxy[1,1'-biphenyl]-3-yl-2',3',4',5',6'-d₅-

hydrazinecarboxylic acid, 1-methylethyl ester

MF: $C_{17}H_{15}D_5N_2O_3$

FW: 305.4

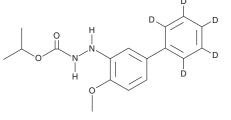
Purity: ≥95% (Bifenazate)

Deuterium

Incorporation: \geq 99% deuterated forms (d₁-d₅); \leq 1% d₀

Supplied as: A solid -20°C Storage: Stability: ≥4 years

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



Laboratory Procedures

Bifenazate-d_ε is intended for use as an internal standard for the quantification of bifenazate (Item No. 24147) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Bifenazate- d_5 is supplied as a solid. A stock solution may be made by dissolving the bifenazate- d_5 in the solvent of choice, which should be purged with an inert gas. Bifenazate-d₅ is slightly soluble in acetonitrile and chloroform.

Description

Bifenazate is a carbazate acaricide that provides 100% control of mites when used at a concentration of 25 ppm. 1 It acts as a positive allosteric modulator of GABA receptors containing the resistance to dieldrin (Rdl) subunit homolog TuGABAR in T. urticae (spider mites), shifting the GABA-induced response from an EC50 value of 24.8 to 4.83 μM when used at a concentration of 30 μM.² Formulations containing bifenazate have been used for the control of mites and for pesticide detection.

References

- 1. Dekeyser, M.A., McDonald, P.T., and Angle, G.W., Jr. The discovery of bifenazate, a novel carbazate acaricide. Chimia 57(11), 702-704 (2003).
- 2. Hiragaki, S., Kobayashi, T., Ochiai, N., et al. A novel action of highly specific acaricide; bifenazate as a synergist for a GABA-gated chloride channel of Tetranychus urticae [Acari: Tetranychidae]. Neurotoxicology 33(3), 307-313 (2012).

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

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

uyer 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, 09/20/2023

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