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

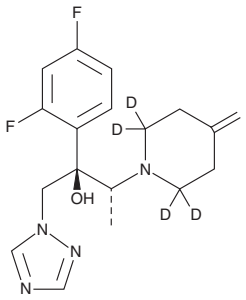
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Efinaconazole-d_4

Item No. 33638

Formal Name:	(2R,3R)-2-(2,4-difluorophenyl)-3-(4-methylenepiperidin-1-yl-2,2,6,6-d_4)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol
MF:	$C_{18}H_{18}D_4F_2N_4O$
FW:	352.4
Chemical Purity:	≥98% (Efinaconazole)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Efinaconazole-d_4 is intended for use as an internal standard for the quantification of efinaconazole (Item No. 23839) 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).

Efinaconazole-d_4 is supplied as a solid. A stock solution may be made by dissolving the efinaconazole-d_4 in the solvent of choice, which should be purged with an inert gas. Efinaconazole-d_4 is soluble in acetonitrile and methanol.

Description

Efinaconazole is a broad-spectrum triazole antifungal agent with activity against *Acremonium*, *Aspergillus*, *Candida*, *Cryptococcus*, *Epidermophyton*, *Fusarium*, *Microsporum*, *Paecilomyces*, *Pseudallescheria*, *Scopulariopsis*, *Trichophyton*, and *Trichosporon*.[1] It inhibits the growth of *T. rubrum* and *T. mentagrophytes* clinical isolates with MIC values ranging from ≤2.0 to 60 ng/ml and of *C. albicans* isolates with MIC values ranging from ≤0.5 to >250 ng/ml. Efinaconazole inhibits sterol 14α-demethylase, which arrests ergosterol (Item No. 19850) biosynthesis at the fungal membrane.[2] It inhibits ergosterol biosynthesis in *T. mentagrophytes* and *C. albicans* with IC_{50} values of 7.0 and 0.40 ng/ml, respectfully. Topical formulations containing efinaconazole have been used for the treatment of onychomycosis.

References

1. Jo Siu, W.J., Tatsumi, Y., Senda, H., *et al*. Comparison of *in vitro* antifungal activities of efinaconazole and currently available antifungal agents against a variety of pathogenic fungi associated with onychomycosis. *Antimicrob. Agents Chemother.* **57(4)**, 1610-1616 (2013).
2. Tatsumi, Y., Nagashima, M., Shibanushi, T., *et al*. Mechanism of action of efinaconazole, a novel triazole antifungal agent. *Antimicrob. Agents Chemother.* **57(5)**, 2405-2409 (2013).

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