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

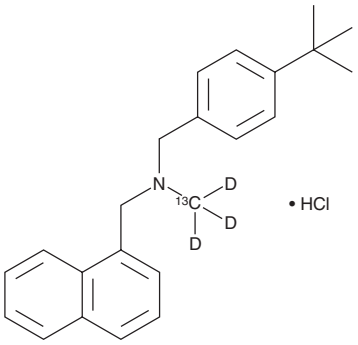
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Butenafine-^{13}C-d$_3$ (hydrochloride)

Item No. 34010

Formal Name:	N-[[4-(1,1-dimethylethyl)phenyl]methyl]-N-methyl-^{13}C-d$_3$-1-naphthalenemethanamine, monohydrochloride
MF:	$C_{22}[^{13}C]H_{24}D_3N \bullet HCl$
FW:	357.9
Chemical Purity:	≥95% (Butenafine)
Deuterium Incorporation:	≥99% deuterated forms (d$_1$-d$_3$); ≤1% d$_0$
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

Butenafine-^{13}C-d$_3$ (hydrochloride) is intended for use as an internal standard for the quantification of butenafine (Item No. 23797) 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).

Butenafine-^{13}C-d$_3$ (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the butenafine-^{13}C-d$_3$ (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Butenafine-^{13}C-d$_3$ (hydrochloride) is soluble in methanol, DMSO, and dimethyl formamide.

Description

Butenafine is a benzylamine antifungal agent that has broad-spectrum activity against 87 strains of dermatophytes (MICs = 0.0015-0.05 µg/ml), 15 strains of *Aspergillus* (MICs = 0.025-0.78 µg/ml), 4 strains of *Cryptococcus* (MICs = 0.78-1.56 µg/ml), and 67 strains of *Candida* (MICs = 3.13 to >100 µg/ml).[1] It acts by inhibiting squalene epoxidase.[2] Butenafine (50 µM) inhibits the synthesis of ergosterol (Item No. 19850), a sterol in the cell membranes of fungi. Formulations containing butenafine have been used in the treatment of tinea pedis, tinea corporis, and tinea cruris.

References

1. Maeda, T., Takase, M., Ishibashi, A., *et al.* Synthesis and antifungal activity of butenafine hydrochloride (KP-363), a new benzylamine antifungal agent. *Yakugaku Zasshi* **111(2)**, 126-137 (1991).
2. Hiratani, T., Asagi, Y., and Yamaguchi, H. Studies on antifungal mechanism of action of butenafine hydrochloride. II. Comparison in the response to drug treatment between a wild-type strain and tolciclate-resistant mutant strains of Sporothrix schenckii. *Nihon Ishinkin Gakkai Zasshi* **32(2)**, 139-149 (1991).

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