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- Diagnostik & molekulare Diagnostik
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Zuschläge

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- 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

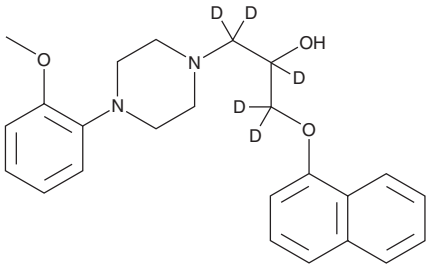
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Naftopidil-d_5

Item No. 33811

Formal Name:	1-(4-(2-methoxyphenyl)piperazin-1-yl)-3-(naphthalen-1-yloxy)propan-1,1,2,3,3-d_5-2-ol
MF:	$C_{24}H_{23}D_5N_2O_3$
FW:	397.5
Chemical Purity:	≥98% (Naftopidil)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_5); ≤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

Naftopidil-d_5 is intended for use as an internal standard for the quantification of naftopidil (Item No. 21122) 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).

Naftopidil-d_5 is supplied as a solid. A stock solution may be made by dissolving the naftopidil-d_5 in the solvent of choice, which should be purged with an inert gas. Naftopidil-d_5 is soluble in the organic solvent methanol.

Description

Naftopidil is an antagonist of α_1-adrenergic receptors (α_1-ARs; K_is = 3.7, 20, and 1.2 nM for α_{1A}-, α_{1B}-, and α_{1D}-ARs, respectively).[1] It is selective for α_1-ARs over α_2-ARs (K_i = 1,793 nM).[2] Naftopidil inhibits norepinephrine-induced contractions in various blood vessels isolated from dog, rabbit, guinea pig, or rat with pA_2 values ranging from 6.73 to 8.15.[2] It reduces prostatic pressure and mean blood pressure in anesthetized dogs when administered at doses of 100 or 1,000 µg/kg.[3] Naftopidil also inhibits the growth of androgen-sensitive LNCaP cells and androgen-insensitive PC3 cancer cells with IC_{50} values of 22.2 and 33.2 µM, respectively.[4] Formulations containing naftopidil have been used in the treatment of benign prostatic hyperplasia.

References

1. Masumori, N. Naftopidil for the treatment of urinary symptoms in patients with benign prostatic hyperplasia. *Ther. Clin. Risk Manag.* **7**, 227-238 (2011).
2. Muramatsu, I., Yamanaka, K., and Kigoshi, S. Pharmacological profile of the novel α-adrenoceptor antagonist KT-611 (naftopidil). *Jpn. J. Pharmacol.* **55(3)**, 391-398 (1991).
3. Takei, R.-i., Ikegaki, I., Shibata, K., *et al.* Naftopidil, a novel α_1-adrenoceptor antagonist, displays selective inhibition of canine prostatic pressure and high affinity binding to cloned human α_1-adrenoceptors. *Jpn. J. Pharmacol.* **79(4)**, 447-454 (1999).
4. Kanda, H., Ishii, K., Ogura, Y., *et al.* Naftopidil, a selective α-1 adrenoceptor antagonist, inhibits growth of human prostate cancer cells by G1 cell cycle arrest. *Int. J. Cancer* **122(2)**, 444-451 (2008).

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