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

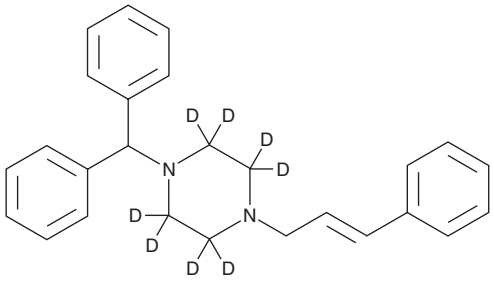
linkedin.com/company/szaboscandic

# PRODUCT INFORMATION

## Cinnarizine-$d_8$

*Item No. 33977*

**CAS Registry No.:** 1185242-27-6
**Formal Name:** 1-(diphenylmethyl)-4-(3-phenyl-2-propen-1-yl)-piperazine-2,2,3,3,5,5,6,6-$d_8$
**MF:** $C_{26}H_{20}D_8N_2$
**FW:** 376.6
**Chemical Purity:** ≥98% (Cinnarizine)
**Deuterium Incorporation:** ≥99% deuterated forms ($d_1$-$d_8$); ≤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

Cinnarizine-$d_8$ is intended for use as an internal standard for the quantification of cinnarizine (Item No. 21001) 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).

Cinnarizine-$d_8$ is supplied as a solid. A stock solution may be made by dissolving the cinnarizine-$d_8$ in the solvent of choice, which should be purged with an inert gas. Cinnarizine-$d_8$ is soluble in methanol.

### Description

Cinnarizine is a calcium channel inhibitor and histamine $H_4$ receptor antagonist ($K_i$ = 142 nM).[1-3] It inhibits L- and T-type calcium channels in isolated guinea pig atrial cells in a voltage-dependent manner.[1] Cinnarizine inhibits L-type calcium currents in isolated guinea pig type II vestibular hair cells ($IC_{50}$ = 1.5 µM). *In vivo*, cinnarizine (10 mg/kg) inhibits ethanol-induced gastric ulcer formation in rats.[3] Formulations containing cinnarizine have been used in the treatment of nausea and vomiting due to vertigo, Meniere's disease, or chemotherapy.

### References


1. Cohen, C.J., Spires, S., and Van Skiver, D. Block of T-type Ca channels in guinea pig atrial cells by antiarrhythmic agents and Ca channel antagonists. *J. Gen. Physiol.* **100(4)**, 703-728 (1992).
2. Arab, S.F., Düwel, P., Jüngling, E., *et al.* Inhibition of voltage-gated calcium currents in type II vestibular hair cells by cinnarizine. *Naunyn Schmiedebergs Arch. Pharmacol.* **369(6)**, 570-575 (2004).
3. Nguyen, T., Shapiro, D.A., George, S.R., *et al.* Discovery of a novel member of the histamine receptor family. *Mol. Pharmacol.* **59(3)**, 427-433 (2001).
4. Lozeva, V., Marazova, K., and Belcheva, A. Gastric histamine content and ulcer formation in rats with ethanol-induced injury. Effects of cinnarizine and flunarizine. *Agents Actions* **41 Spec No**, C91-C92 (1994).





**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