



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](https://www.linkedin.com/company/szaboscandic) 

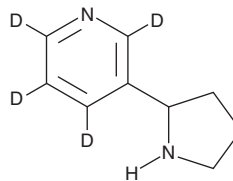
PRODUCT INFORMATION



(±)-Nornicotine-d₄

Item No. 35242

CAS Registry No.: 66148-18-3
Formal Name: 5-(2-pyrrolidiny)-pyridine-2,3,4,6-d₄
Synonyms: DL-Nornicotine-d₄, (R,S)-Nornicotine-d₄
MF: C₉H₈D₄N₂
FW: 152.2
Chemical Purity: ≥98% ((±)-Nornicotine)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₄); ≤1% d₀
Supplied as: A neat oil
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

(±)-Nornicotine-d₄ is intended for use as an internal standard for the quantification of (±)-nornicotine (Item No. 20505) 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).

(±)-Nornicotine-d₄ is supplied as a neat oil. A stock solution may be made by dissolving the (±)-nornicotine-d₄ in the solvent of choice, which should be purged with an inert gas. (±)-Nornicotine-d₄ is soluble in methanol.

Description

(±)-Nornicotine is an active metabolite of nicotine (Item No. 16535) and a nicotinic acetylcholine receptor (nAChR) agonist.¹ It induces currents in *Xenopus* oocytes expressing human α7 nAChRs or α6 subunit-containing nAChRs (EC₅₀s = 17 and 3.7 μM, respectively). (±)-Nornicotine promotes cell migration and destabilizes cell-cell junctions in EA.hy926 endothelial cells.² It is self-administered in rats.^{3,4}

References

1. Papke, R.L., Dwoskin, L.P., and Crooks, P.A. The pharmacological activity of nicotine and nornicotine on nAChRs subtypes: Relevance to nicotine dependence and drug discovery. *J. Neurochem.* **101**(1), 160-167 (2007).
2. Gagat, M., Grzanka, D., Izdebska, M., *et al.* Nornicotine impairs endothelial cell-cell adherens junction complexes in EA.hy926 cell line via structural reorganization of F-actin. *Folia Histochem. Cytobiol.* **51**(3), 179-192 (2013).
3. Bardo, M.T., Green, T.A., Crooks, P.A., *et al.* Nornicotine is self-administered intravenously by rats. *Psychopharmacology (Berl)* **146**(3), 290-296 (1999).
4. Hoffman, A.C. and Evans, S.E. Abuse potential of non-nicotine tobacco smoke components: Acetaldehyde, nornicotine, cotinine, and anabasine. *Nicotine Tob. Res.* **15**(3), 622-632 (2013).

WARNING

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

SAFETY DATA

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

Buyer 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, 11/07/2022

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