



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

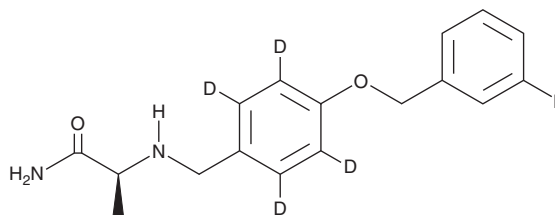
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Safinamide-d₄ Item No. 28490

Formal Name: 2S-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-propanamide-2,3,5,6-d₄
MF: C₁₇H₁₅D₄FN₂O₂
FW: 306.4
Chemical Purity: ≥98% (Safinamide)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₄); ≤1% d₀
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

Safinamide-d₄ is intended for use as an internal standard for the quantification of safinamide (Item No. 21546) 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).

Safinamide-d₄ is supplied as a solid. A stock solution may be made by dissolving the safinamide-d₄ in the solvent of choice, which should be purged with an inert gas. Safinamide-d₄ is soluble in DMSO.

Description

Safinamide is an inhibitor of monoamine oxidase B (MAO-B; IC₅₀ = ~0.1 μM).¹ It is selective for MAO-B over MAO-A (IC₅₀ = >10 μM). It also inhibits radioligand binding to sodium channel binding site 2, sigma-1, and sigma-2 receptors in rat brain membranes (IC₅₀s = 8.2, 0.019, and 1.59 μM, respectively).² Safinamide inhibits high voltage-activated calcium currents and depolarization-induced tetrodotoxin-sensitive fast sodium currents in rat hippocampal neurons in a concentration-dependent manner. It inhibits veratrine-induced glutamate release in rat hippocampal slices (IC₅₀ = 56 μM). Safinamide inhibits maximal electroshock-induced tonic extension seizures in mice and rats (ED₅₀s = 8 and 11.8 mg/kg, p.o.) as well as maximal seizures induced by bicuculline (Item No. 11727), picrotoxin (Item No. 20771), 3-mercaptopropionic acid, and strychnine in mice (ED₅₀s = 26.9, 60.6, 21.5, and 104.1 mg/kg, p.o., respectively).³ Formulations containing safinamide have been used as adjunctive treatments to levodopa and carbidopa in the treatment of "off" episodes associated with Parkinson's disease.

References

1. Strolin Benedetti, M.S., Marrari, P., Colombo, M., *et al.* The anticonvulsant FCE 26743 is a selective and short-acting MAO-B inhibitor devoid of inducing properties towards cytochrome P450-dependent testosterone hydroxylation in mice and rats. *J. Pharm. Pharmacol.* **46(10)**, 814-819 (1994).
2. Salvati, P., Maj, R., Caccia, C., *et al.* Biochemical and electrophysiological studies on the mechanism of action of PNU-151774E, a novel antiepileptic compound. *J. Pharmacol. Exp. Ther.* **288(3)**, 1151-1159 (1999).
3. Fariello, R.G., McArthur, R.A., Bonsignori, A., *et al.* Preclinical evaluation of PNU-151774E as a novel anticonvulsant. *J. Pharmacol. Exp. Ther.* **285(2)**, 397-403 (1998).

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, 09/05/2019

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