



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) 

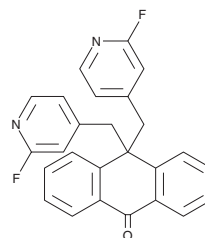
PRODUCT INFORMATION



DMP 543

Item No. 32849

CAS Registry No.: 160588-45-4
Formal Name: 10,10-bis[(2-fluoro-4-pyridinyl)methyl]-9(10H)-anthracenone
MF: C₂₆H₁₈F₂N₂O
FW: 412.4
Purity: ≥98%
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

DMP 543 is supplied as a solid. A stock solution may be made by dissolving the DMP 543 in the solvent of choice, which should be purged with an inert gas. DMP 543 is soluble in the organic solvent DMSO at a concentration of approximately 30 mg/ml.

Description

DMP 543 is an inhibitor of the voltage-gated potassium channel K_v7.2 (IC₅₀ = 0.048 μM) and a derivative of linopirdine (Item No. 19547).^{1,2} It enhances potassium-induced acetylcholine (ACh) release in rat hippocampal slices (EC₅₀ = 0.83 μM).² DMP 543 (1 mg/kg) increases hippocampal extracellular ACh levels in rats.

References

- Porter, J.D., Vivas, O., Weaver, C.D., *et al.* An anthrone-based Kv7.2/7.3 channel blocker with improved properties for the investigation of psychiatric and neurodegenerative disorders. *Bioorg. Med. Chem. Lett.* **29(23)**, 126681 (2019).
- Zaczek, R., Chorvat, R.J., Saye, J.A., *et al.* Two new potent neurotransmitter release enhancers, 10,10-bis(4-pyridinylmethyl)-9(10H)-anthracenone and 10,10-bis(2-fluoro-4-pyridinylmethyl)-9(10H)-anthracenone: Comparison to linopirdine. *J. Pharmacol. Exp. Ther.* **285(2)**, 724-730 (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, 12/10/2020

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