



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) 

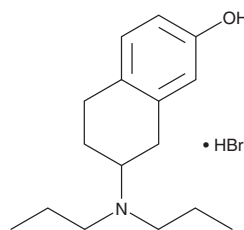
PRODUCT INFORMATION



7-hydroxy DPAT (hydrobromide)

Item No. 29516

CAS Registry No.: 76135-30-3
Formal Name: 7-(dipropylamino)-5,6,7,8-tetrahydro-2-naphthalenol, monohydrobromide
MF: C₁₆H₂₅NO • HBr
FW: 328.3
Purity: ≥95%
Supplied as: A crystalline 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

7-hydroxy DPAT (hydrobromide) is supplied as a crystalline solid. A stock solution may be made by dissolving the 7-hydroxy DPAT (hydrobromide) in the solvent of choice, which should be purged with an inert gas. 7-hydroxy DPAT (hydrobromide) is soluble in DMSO.

Description

7-hydroxy DPAT is a dopamine D₃ receptor agonist.¹ It selectively binds to the dopamine D₃ over the D₂, D₁, and D₄ receptors (K_s = 0.78, 61, 650, and 5,300 nM, respectively, in radioligand binding assays). 7-hydroxy DPAT increases calcium mobilization in HEK293 cells expressing the D₃ receptor with an EC₅₀ value of 13.5 nM in a FLIPR assay.² It decreases the release of striatal dopamine and its metabolite 3,4-dihydroxyphenylacetic acid (DOPAC; Item No. 24912) in rats when administered intraperitoneally at a dose of 0.25 mg/kg.³ 7-hydroxy DPAT (2 μg/μl for eight weeks, i.c.v.) reduces the loss of ipsilateral substantia nigra pars compacta (SNC) dopaminergic neurons in a rat model of Parkinson's disease induced by 6-OHDA (Item No. 25330).⁴ It also decreases amphetamine-induced ipsilateral rotations and increases the number of steps reached with the contralateral paw in the staircase test in the same model.

References

1. Lévesque, D., Diaz, J.A., Pilon, C., *et al.* Identification, characterization, and localization of the dopamine D₃ receptor in rat brain using 7-[³H]hydroxy-N,N-di-n-propyl-2-aminotetralin. *Proc. Natl. Acad. Sci. USA* **89**(17), 8155-8159 (1992).
2. Moreland, R.B., Nakane, M., Donnelly-Roberts, D., *et al.* Comparative pharmacology of human dopamine D₂-like receptor stable cell lines coupled to calcium flux through G_{αo5}. *Biochem. Pharmacol.* **68**(4), 761-772 (2004).
3. Mulder, T.B.A., de Vries, J.B., Dijkstra, D., *et al.* Further in vitro and in vivo studies with the putative presynaptic dopamine agonist N,N-dipropyl-7-hydroxy-2-aminotetralin. *Naunyn Schmiedebergs Arch. Pharmacol.* **336**(5), 494-501 (1987).
4. Van Kampen, J.M. and Eckman, C.B. Dopamine D₃ receptor agonist delivery to a model of Parkinson's disease restores the nigrostriatal pathway and improves locomotor behavior. *J. Neurosci.* **26**(27), 7272-7280 (2006).

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, 03/27/2020

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