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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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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)

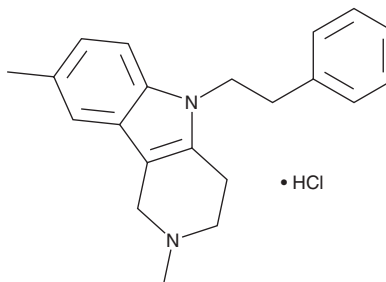
PRODUCT INFORMATION



AVN-101 (hydrochloride)

Item No. 38791

CAS Registry No.: 1061354-48-0
Formal Name: 2,3,4,5-tetrahydro-2,8-dimethyl-5-(2-phenylethyl)-1H-pyrido[4,3-b]indole, monohydrochloride
MF: C₂₁H₂₄N₂ • HCl
FW: 340.9
Purity: ≥98%
UV/Vis.: λ_{max}: 227 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

AVN-101 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the AVN-101 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. AVN-101 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of AVN-101 (hydrochloride) in these solvents is approximately 1, 5, and 10 mg/ml, respectively.

Description

AVN-101 is a multimodal receptor antagonist.¹ It is an antagonist of the serotonin (5-HT) receptor subtypes 5-HT₇, 5-HT_{2C}, 5-HT_{2A}, and 5-HT₆ (K_is = 0.153, 1.17, 1.56, and 2.04 nM, respectively). It is selective for these receptors over 5-HT_{2B}, 5-HT_{5A}, 5-HT_{1A}, and 5-HT_{1B} receptors (K_is = 10.6, 20.8, 61, and 720 nM, respectively). It is also an antagonist of α_{2A}, α_{2B}, α_{2C}, α_{1B}, α_{1A}, and α_{1D}-adrenergic receptors (K_is = 0.41, 1.77, 3.55, 9.4, 18.9, and 30.2 nM, respectively), as well as histamine H₁ and H₂ (K_is = 0.58 and 89 nM, respectively), but not H₃ receptors. AVN-101 (0.2, 1, and 5 mg/kg) increases the time spent in the open arms of the elevated plus maze in mice. It also reduces immobility in the forced swim test and prevents scopolamine-induced amnesia in a passive avoidance test in mice when administered at a dose of 0.05 mg/kg.

Reference

1. Ivachtchenko, A.V., Lavrovsky, Y., and Okun, I. AVN-101: A multi-target drug candidate for the treatment of CNS disorders. *J. Alzheimers Dis.* **53(2)**, (2016).

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

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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