



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) 

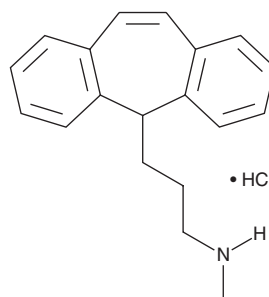
PRODUCT INFORMATION



Protriptyline (hydrochloride)

Item No. 31179

CAS Registry No.:	1225-55-4
Formal Name:	N-methyl-5H-dibenzo[a,d]cycloheptene-5-propanamine, monohydrochloride
Synonym:	Protriptyline
MF:	C ₁₉ H ₂₁ N • HCl
FW:	299.8
Purity:	≥98%
UV/Vis.:	λ _{max} : 294 nm
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

Protriptyline (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the protriptyline (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Protriptyline (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of protriptyline (hydrochloride) in ethanol and DMF is approximately 5 mg/ml and approximately 3 mg/ml in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of protriptyline (hydrochloride) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of protriptyline (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Protriptyline is a tricyclic antidepressant.¹ It binds to the norepinephrine and serotonin (5-HT) transporters with K_d values of 1.41 and 19.6 nM, respectively. Protriptyline also binds to histamine H₁, muscarinic acetylcholine, and α_1 -adrenergic receptors (K_d s = 25, 25, and 130 nM, respectively).² It inhibits norepinephrine uptake into rat whole brain and hypothalamic synaptosomes (IC_{50} s = 12 and 0.55 μ M, respectively) and 5-HT uptake into rat whole brain synaptosomes (IC_{50} = 5.5 μ M).³ Protriptyline (1 mg/kg, i.v.) inhibits food-induced cataplexy in narcoleptic dogs.⁴ Formulations containing protriptyline have been used in the treatment of depression.

References

1. Tatsumi, M., Groshan, K., Blakely, R.D., *et al.* Pharmacological profile of antidepressants and related compounds at human monoamine transporters. *Eur. J. Pharmacol.* **340(2-3)**, 249-258 (1997).
2. Richelson, E. and Nelson, A. Antagonism by antidepressants of neurotransmitter receptors of normal human brain *in vitro*. *J. Pharmacol. Exp. Ther.* **230(1)**, 94-102 (1984).
3. Schacht, U. and Heptner, W. Effect of nomifensine (HOE 984), a new antidepressant, on uptake of noradrenaline and serotonin and on release of noradrenaline in rat brain synaptosomes. *Biochem. Pharmacol.* **23(24)**, 3413-3422 (1974).
4. Foutz, A.S., Delashaw, J.B., Jr., Guilleminault, C., *et al.* Monoaminergic mechanisms and experimental cataplexy. *Ann. Neurol.* **10(4)**, 369-376 (1981).

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, 07/08/2020

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