



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) 

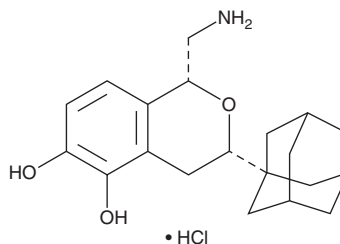
PRODUCT INFORMATION



A-77636 (hydrochloride)

Item No. 24316

CAS Registry No.: 145307-34-2
Formal Name: (1R,3S)-1-(aminomethyl)-3,4-dihydro-3-tricyclo[3.3.1.1^{3,7}]dec-1-yl-1H-2-benzopyran-5,6-diol, monohydrochloride
MF: C₂₀H₂₇NO₃ • HCl
FW: 365.9
Purity: ≥98%
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

A-77636 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the A-77636 (hydrochloride) in the solvent of choice. A-77636 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of A-77636 (hydrochloride) in these solvents is approximately 33 mg/ml.

A-77636 (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, A-77636 (hydrochloride) should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. A-77636 (hydrochloride) has a solubility of approximately 0.14 mg/ml in a 1:6 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

A-77636 is a dopamine D₁ receptor agonist (K_i = 40 nM).¹ It induces activity equal to or greater than dopamine (Item No. 21992) in an adenylate cyclase assay of D₁ receptor activity in fish retina and rat caudate putamen (EC₅₀s = 7.4 and 1.1 nM, respectively) but does not show agonist activity at D₂ receptors expressed in MMQ cells when used at concentrations up to 10 μM. A-77636 (10 μM) induces desensitization of dopamine-stimulated cAMP accumulation and downregulation of D₁ receptors, reducing D₁ receptor expression by 79% in C-6 glioma cells expressing monkey D_{1A} receptors.² In a marmoset model of Parkinson's disease induced by MPTP, A-77636 (3 μmol/kg, s.c.) increases locomotor activity 5.3-fold and reduces disease severity.¹ Subcutaneous administration of A-77636 elicits cortical acetylcholine release at a dose of 1 μmol/kg.³ It also elicits over a 230% increase in cortical and hippocampal acetylcholine release when administered at a dose of 4 μmol/kg, an effect that is blocked by the D₁ antagonist SCH 23390 (Item No. 15631).

References

1. Keababian, J.W., Britton, D.R., DeNinno, M.P., et al. *Eur. J. Pharmacol.* **229**(2-3), 203-209 (1992).
2. Lewis, M.M., Watts, V.J., Lawler, C.P., et al. *J. Pharmacol. Exp. Ther.* **286**(1), 345-353 (1998).
3. Acquas, E., Day, J.C., and Fibiger, H.C. *Eur. J. Pharmacol.* **260**(1), 85-87 (1994).

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, 06/25/2019

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