



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) 

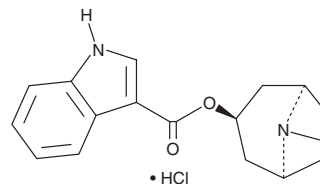
PRODUCT INFORMATION



Tropisetron (hydrochloride)

Item No. 21240

CAS Registry No.: 105826-92-4
Formal Name: 1H-indole-3-carboxylic acid (3-endo)-8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester, monohydrochloride
Synonyms: ICS 205-930, SDZ-ICS 930
MF: C₁₇H₂₀N₂O₂ • HCl
FW: 320.8
Purity: ≥98%
UV/Vis.: λ_{max}: 213, 228, 281 nm
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

Tropisetron (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the tropisetron (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Tropisetron (hydrochloride) is slightly soluble in ethanol.

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 tropisetron (hydrochloride) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of tropisetron (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

Tropisetron is an antagonist of the serotonin (5-HT) receptor subtype 5-HT₃ (K_i = 0.8 nM for the mouse receptor).¹ It is selective for 5-HT₃ over the 5-HT₄ receptor subtype (K_i = 156 nM for the porcine receptor). Tropisetron is also an antagonist of the α₉ nicotinic acetylcholine receptor (nAChR; IC₅₀ = 166 nM for the rat receptor) and a partial agonist of the α₇ nAChR (K_i = 6.9 nM for the rat receptor).^{2,3} It enhances glycine-induced potentiation of homomeric α₁ but not homomeric α₂ glycine receptors when used at a concentration of 10 μM.⁴ Tropisetron (0.1 nM) blocks 5-HT-induced depolarizations in isolated rabbit nodose ganglia.⁵ It exhibits anti-emetic effects in a ferret model of emesis induced by cisplatin (Item No. 13119) when administered at a dose of 1 mg/kg.⁶ Formulations containing tropisetron have been used in the treatment of nausea and vomiting associated with chemotherapy.

References

1. Schiavi, G.B., Brunet, S., Rizzi, C.A., *et al. Neuropharmacology* **33(3-4)**, 543-549 (1994).
2. Rothlin, C.V., Katz, E., Verbitsky, M., *et al. Mol. Pharmacol.* **55(2)**, 248-254 (1999).
3. Macor, J.E., Gurley, D., Lanthorn, T., *et al. Bioorg. Med. Chem. Lett.* **11(3)**, 319-321 (2001).
4. Supplisson, S. and Chesnoy-Marchais, D. *Mol. Pharmacol.* **58(4)**, 763-770 (2000).
5. Round, A. and Wallis, D.I. *Br. J. Pharmacol.* **88(2)**, 485-494 (1986).
6. Watson, J.W., Gonsalves, S.F., Fossa, A.A., *et al. Br. J. Pharmacol.* **115(1)**, 84-94 (1995).

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, 01/21/2022

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