



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) 

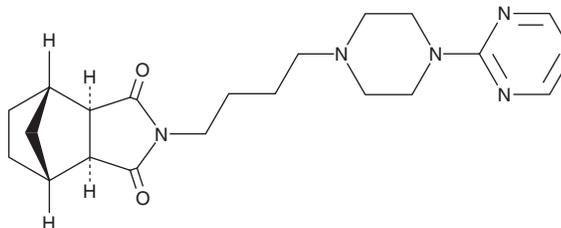
PRODUCT INFORMATION



Tandospirone

Item No. 40436

CAS Registry No.: 87760-53-0
Formal Name: (3aR,4S,7R,7aS)-rel-hexahydro-2-[4-[4-(2-pyrimidinyl)-1-piperazinyl]butyl]-4,7-methano-1H-isoindole-1,3(2H)-dione
Synonym: SM-3997
MF: C₂₁H₂₉N₅O₂
FW: 383.5
Purity: ≥95%
Supplied as: A 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

Tandospirone is supplied as a solid. A stock solution may be made by dissolving the tandospirone in the solvent of choice, which should be purged with an inert gas. Tandospirone is sparingly soluble (1-10 mg/ml) in ethanol.

Description

Tandospirone is a partial agonist of the serotonin (5-HT) receptor subtype 5-HT_{1A}.¹ It selectively binds to 5-HT_{1A} receptors (K_i = 0.027 μM) over 5-HT₂, 5-HT_{1B}, 5-HT_{1C}, and 5-HT_{1D} receptors (K_is = 1.3, >100, 2.6, and >100 μM, respectively), as well as α₁-adrenergic receptors (α₁-ARs), α₂-ARs, β-ARs, and dopamine D₁ and D₂ receptors (K_is = 1.6, 1.9, >100, 1.7, and 41 μM, respectively). Tandospirone (0.1-100 μM) reduces forskolin-induced adenylate cyclase activity in rat hippocampal homogenates. *In vivo*, tandospirone (10 and 20 mg/kg) reduces immobility time in the forced swim test in mice.² Tandospirone (10 mg/kg) increases food intake and overall survival, as well as decreases body weight loss in a Yoshida hepatoma rat model of cancer cachexia.³ Formulations containing tandospirone have been used in the treatment of depression.

References

1. Hamik, A., Oksenberg, D., Fischette, C., *et al.* Analysis of tandospirone (SM-3997) interactions with neurotransmitter receptor binding sites. *Biol. Psychiatry*. **28(2)**, 99-109 (1990).
2. Wieland, S. and Lucki, I. Antidepressant-like activity of 5-HT_{1A} agonists measured with the forced swim test. *Psychopharmacology (Berl.)* **101(4)**, 497-504 (1990).
3. Elkina, Y., Palus, S., Tschirner, A., *et al.* Tandospirone reduces wasting and improves cardiac function in experimental cancer cachexia. *Int. J. Cardiol.* **170(2)**, 160-166 (2013).

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, 04/01/2024

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