



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 Handels GmbH

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



Tamoxifen (citrate)

Item No. 11629

CAS Registry No.: 54965-24-1

Formal Name: 2-[4-[(1Z)-1,2-diphenyl-1-buten-1-yl]phenoxy]-N,N-dimethyl-ethanamine, 2-hydroxy-1,2,3-propanetricarboxylate

Synonyms: ICI 46474, TMX

MF: $C_{26}H_{29}NO \cdot C_6H_8O_7$

FW: 563.6

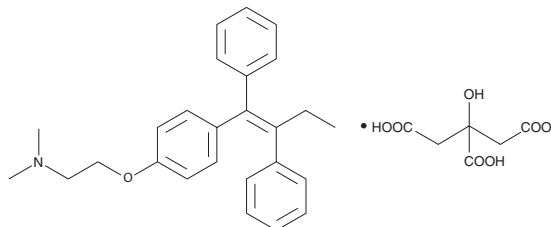
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 237, 276 nm

Supplied as: A crystalline solid

Storage: $-20^{\circ}C$

Stability: ≥ 4 years



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

Laboratory Procedures

Tamoxifen (citrate) is supplied as a crystalline solid. A stock solution may be made by dissolving the Tamoxifen (citrate) in the solvent of choice, which should be purged with an inert gas. Tamoxifen (citrate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of Tamoxifen (citrate) in these solvents is approximately 10, 2, and 20 mg/ml, respectively.

Tamoxifen (citrate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, Tamoxifen (citrate) should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Tamoxifen (citrate) has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Tamoxifen is an estrogen receptor antagonist ($IC_{50} = 45$ nM for the rabbit receptor).¹ It reduces the proliferation of MCF-7 breast cancer cells when used at a concentration of 10 μM .² Tamoxifen is active against *S. cerevisiae*, *C. neoformans*, and five *Candida* species (MICs = 12, 64, and 8-64 $\mu g/ml$, respectively).³ It decreases tumor proliferation, weight, and volume in an MCF-7 mouse xenograft model when administered at a dose of 100 $\mu g/animal$ per day.⁴ Tamoxifen (0.8 mg/kg every two weeks) also reduces proteinuria and increases survival in an NZBWF1 mouse model of systemic lupus erythematosus (SLE).⁵ It can be used as a regulator for Cre-recombinase inducible gene expression *in vivo*.⁶ Formulations containing tamoxifen have been used in the treatment of estrogen receptor-positive breast cancer.

References

1. Löser, R., Seibel, K., Roos, W., et al. *Eur. J. Cancer Clin. Oncol.* **21**(8), 985-990 (1985).
2. Lippman, M., Bolan, G., and Huff, K. *Cancer Res.* **36**(12), 4595-4601 (1976).
3. Dolan, K., Montgomery, S., Buchheit, B., et al. *Antimicrob. Agents Chemother.* **53**(8), 3337-3346 (2009).
4. Long, B.J., Jelovac, D., Handratta, V., et al. *J. Natl. Cancer Inst.* **96**(6), 456-465 (2004).
5. Wu, W.-M., Lin, B.-F., Su, Y.-C., et al. *Scand. J. Immunol.* **52**(4), 393-400 (2000).
6. Chen, M., Lichtler, A.C., Sheu, T.-J., et al. *Genesis* **45**(1), 44-50 (2007).

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, 06/20/2023

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