



# 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

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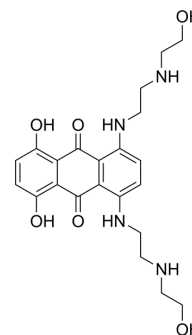
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## Mitoxantrone (Standard)

<b>Cat. No.:</b>	HY-13502R
<b>CAS No.:</b>	65271-80-9
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>28</sub> N <sub>4</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	444.48
<b>Target:</b>	Endogenous Metabolite; PKC; Orthopoxvirus; Topoisomerase; Apoptosis
<b>Pathway:</b>	Metabolic Enzyme/Protease; Epigenetics; TGF-beta/Smad; Anti-infection; Cell Cycle/DNA Damage; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Mitoxantrone (Standard) is the analytical standard of Mitoxantrone. This product is intended for research and analytical applications. Mitoxantrone is a potent topoisomerase II inhibitor. Mitoxantrone also inhibits protein kinase C (PKC) activity with an IC <sub>50</sub> of 8.5 μM. Mitoxantrone induces apoptosis of B-CLL (B-chronic lymphocytic leukaemia) cells. Mitoxantrone shows antitumor activity <sup>[1][2][3][4]</sup> . Mitoxantrone also has anti-orthopoxvirus activity with EC <sub>50</sub> s of 0.25 μM and 0.8 μM for cowpox and monkeypox, respectively <sup>[5]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 8.5 μM (PKC) <sup>[1]</sup>

### REFERENCES

- [1]. Takeuchi N, et al. Inhibitory effect of mitoxantrone on activity of protein kinase C and growth of HL60 cells. *J Biochem.* 1992 Dec;112(6):762-7.
- [2]. Bellosillo B, et al. Mitoxantrone, a topoisomerase II inhibitor, induces apoptosis of B-chronic lymphocytic leukaemia cells. *Br J Haematol.* 1998 Jan;100(1):142-6.
- [3]. Vibet S, et al. Differential subcellular distribution of mitoxantrone in relation to chemosensitization in two human breast cancer cell lines. *Drug Metab Dispos.* 2007 May;35(5):822-8.
- [4]. Fujimoto S, et al. Antitumor activity of mitoxantrone against murine experimental tumors: comparative analysis against various antitumor antibiotics. *Cancer Chemother Pharmacol.* 1982;8(2):157-62.
- [5]. Sharon E Altmann, et al. Inhibition of cowpox virus and monkeypox virus infection by mitoxantrone. *Antiviral Res.* 2012 Feb;93(2):305-308.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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