



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) 

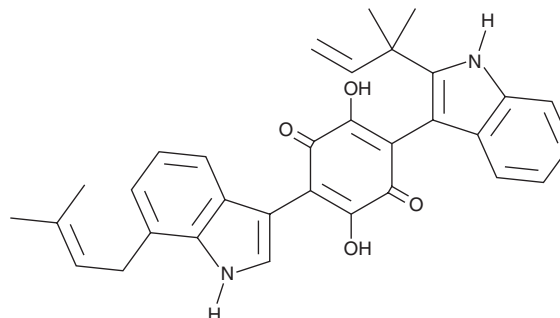
PRODUCT INFORMATION



Demethylasterriquinone B1

Item No. 21026

CAS Registry No.: 78860-34-1
Formal Name: 2-[2-(1,1-dimethyl-2-propen-1-yl)-1H-indol-3-yl]-3,6-dihydroxy-5-[7-(3-methyl-2-buten-1-yl)-1H-indol-3-yl]-2,5-cyclohexadiene-1,4-dione
Synonyms: DMAQ B1, L-783,281
MF: C₃₂H₃₀N₂O₄
FW: 506.6
Purity: ≥98%
UV/Vis.: λ_{max}: 222, 282, 289 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Demethylasterriquinone B1 (DMAQ B1) is supplied as a crystalline solid. A stock solution may be made by dissolving the DMAQ B1 in the solvent of choice. DMAQ B1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of DMAQ B1 in ethanol and DMSO is approximately 10 mg/ml and approximately 15 mg/ml in DMF.

DMAQ B1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, DMAQ B1 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. DMAQ B1 has a solubility of approximately 0.20 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

DMAQ B1 is a natural insulin mimic that activates insulin receptor tyrosine kinase (IRTK; EC₅₀ = 6 μM).¹⁻⁴ It less potently activates IGF1R and EGFR (EC₅₀s = 100 μM for both). DMAQ B1 induces glucose uptake in adipocytes and skeletal muscle cells without activating proliferation. DMAQ B1 binds GAPDH *in vitro*.⁵

References

1. Salituro, G.M., Pelaez, F., and Zhang, B.B. Discovery of a small molecule insulin receptor activator. *Recent Prog. Horm. Res.* **56**, 107-126 (2001).
2. Tsai, H.J., and Chou, S.Y. A novel hydroxyfuroic acid compound as an insulin receptor activator. Structure and activity relationship of a prenylindole moiety to insulin receptor activation. *J. Biomed. Sci.* **16(68)**, (2009).
3. Weber, M.A., Lidor, A., Arora, S., et al. A novel insulin mimetic without a proliferative effect on vascular smooth muscle cells. *J. Vasc. Surg.* **32(6)**, 1118-1126 (2000).
4. Webster, N.J.G., Park, K., and Pirrung, M.C. Signaling effects of demethylasterriquinone B1, a selective insulin receptor modulator *Chembiochem.* **4(5)**, 379-385 (2003).
5. Kim, H., Deng, L., Xiong, X., et al. Glyceraldehyde 3-phosphate dehydrogenase is a cellular target of the insulin mimic demethylasterriquinone B1. *J. Med. Chem.* **50(15)**, 3423-3426 (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, 01/20/2017

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