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Produktinformation

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- Laborgeräte & Service

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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

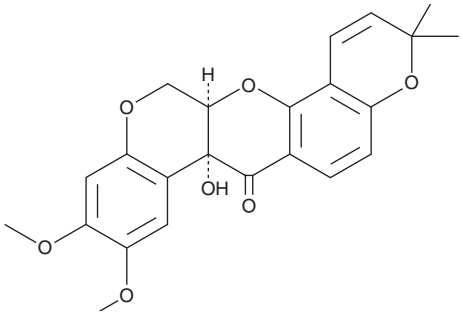
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Tephrosin (synthetic)

Item No. 19840

CAS Registry No.:	76-80-2
Formal Name:	(7aR,13aR)-13,13a-dihydro-7a-hydroxy-9,10-dimethoxy-3,3-dimethyl-3H-*bis*[1]benzopyrano[3,4-b:6',5'-e]pyran-7(7aH)-one
Synonyms:	Deguelinol I, Hydroxydeguelin
MF:	$C_{23}H_{22}O_7$
FW:	410.4
Purity:	≥98%
Supplied as:	A 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

Tephrosin (synthetic) is supplied as a solid. A stock solution may be made by dissolving the tephrosin (synthetic) in the solvent of choice. Tephrosin (synthetic) is soluble in the organic solvent chloroform, which should be purged with an inert gas.

Description

Tephrosin is a rotenoid first isolated from the leaves and seeds of *T. purpurea* and *T. vogelii* that exhibits antineoplastic and piscicidal activities. The toxic actions of this compound are attributed to its ability to inhibit the NADH:ubiquinone oxidoreductase with an IC_{50} value of 98 nM.[1] Tephrosin is also reported to induce ornithine decarboxylase activity with an IC_{50} value of 147 nM.[1] Tephrosin has been shown to enhance the cytotoxic activity of 2-deoxy-D-glucose (Item No. 14325) against various cancer human cancer cell lines, depleting intracellular ATP and inducing apoptosis.[2]

References

1. Fang, N. and Casida, J.E. Anticancer action of cubé insecticide: Correlation for rotenoid constituents between inhibition of NADH:ubiquinone oxidoreductase and induced ornithine decarboxylase activities. *Proc. Natl. Acad. Sci. USA* **95**, 3380-3384 (1998).
2. Choi, Y. and Lee, J. H. The combination of tephrosin with 2-deoxy-D-glucose enhances the cytotoxicity *via* accelerating ATP depletion and blunting autophagy in human cancer cells. *Cancer Biol. Ther.* **12(11)**, 989-996 (2011).

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