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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

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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

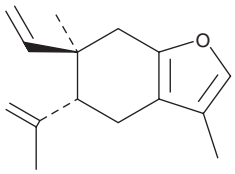
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Curzerene

Item No. 35828

CAS Registry No.:	17910-09-7
Formal Name:	(5R,6R)-*rel*-6-ethenyl-4,5,6,7-tetrahydro-3,6-dimethyl-5-(1-methylethenyl)-benzofuran
Synonyms:	Isofuranogermacrene, Isogermafurene, Neocurzerene
MF:	$C_{15}H_{20}O$
FW:	216.3
Purity:	≥95%
UV/Vis.:	λ_{max}: 220 nm
Supplied as:	A solution in chloroform
Storage:	-20°C
Stability:	≥2 years
Item Origin:	Synthetic



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

Laboratory Procedures

Curzerene is supplied as a solution in chloroform. To change the solvent, simply evaporate the chloroform under a gentle stream of nitrogen and immediately add the solvent of choice, which should be purged with an inert gas. Curzerene is soluble (≥10 mg/ml) in ethanol and sparingly soluble (1-10 mg/ml) in DMSO.

Description

Curzerene is a sesquiterpene that has been found in *C. longa* and has diverse biological activities.[1-4] It scavenges DPPH (Item No. 14805) radicals in a cell-free assay when used at a concentration of 3.36 µg/L with a synergistic effect when used in combination with the bicyclic monoterpene eucalyptol (Item No. 22183).[3] Curzerene (0.5 mg/ml) is active against *F. graminearum*.[2] It inhibits the proliferation of SK-MEL-19 melanoma cells (IC_{50} = 5.17 µg/ml), as well as AGP-01 gastric and HCT116 colon cancer cells (IC_{50}s = 8.04 and 9.18 µg/ml, respectively) and MRC-5 non-cancerous fibroblasts (IC_{50} = 11.45 µg/ml).[1] It also induces apoptosis in, and decreases migration of, SK-MEL-19 cells when used at concentrations of 5 and 10 µM. Curzerene (135 mg/kg) reduces tumor weight in an SPC-A1 lung adenocarcinoma mouse xenograft model.[4]

References

1. Figueiredo, P.L.B., Pinto, L.C., da Costa, J.S., *et al.* Composition, antioxidant capacity and cytotoxic activity of *Eugenia uniflora* L. chemotype-oils from the Amazon. *J. Ethnopharmacol.* **232**, 30-38 (2019).
2. Chen, C., Long, L., Zhang, F., *et al.* Antifungal activity, main active components and mechanism of *Curcuma longa* extract against *Fusarium graminearum*. *PLoS One* **13(3)**, e0194284 (2018).
3. Wang, X., Zuo, G.-L., Wang, C.-Y., *et al.* An off-line DPPH-GC-MS coupling countercurrent chromatography method for screening, identification, and separation of antioxidant compounds in essential oil. *Antioxidants (Basel)* **9(8)**, 702 (2020).
4. Wang, Y., Li, J., Guo, J., *et al.* Cytotoxic and antitumor effects of curzerene from *Curcuma longa*. *Planta Med.* **83(1-2)**, 23-29 (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