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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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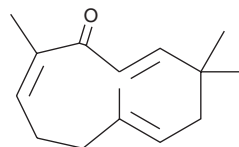
PRODUCT INFORMATION



Zerumbone

Item No. 15400

CAS Registry No.: 471-05-6
Formal Name: (2E,6E)-2,6,9,9-tetramethyl-2,6,10E-cycloundecatrien-1-one
MF: $C_{15}H_{22}O$
FW: 218.3
Purity: $\geq 99\%$
Supplied as: Solid white crystals or powder
Storage: $-20^{\circ}C$
Stability: ≥ 2 years
Item Origin: Plant/*Curcuma zerumbet*



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

Laboratory Procedures

Zerumbone is supplied as solid white crystals or powder. A stock solution may be made by dissolving the zerumbone in the solvent of choice. Zerumbone is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas.

Description

Zerumbone is a natural monocyclic sesquiterpene first isolated from rhizomes of the wild ginger *Z. zerumbet*.¹ It potently inhibits the activation of Epstein-Barr virus by phorbol esters ($IC_{50} = 140$ nM).^{1,2} Zerumbone inhibits Sonic hedgehog signaling and induces apoptosis in cancer cell lines.³⁻⁵ It has also been shown to have anti-oxidant and anti-inflammatory activities, contributing to immunomodulatory and hepatoprotective effects.⁶

References

1. Murakami, A., Takahashi, M., Jiwajinda, S., et al. *Biosci. Biotechnol. Biochem.* **63**(10), 1811-1812 (1999).
2. Murakami, A., Takahashi, D., Kinoshita, T., et al. *Carcinogenesis* **23**(5), 795-802 (2002).
3. Stanton, B.Z. and Peng, L.F. *Mol. BioSyst.* **6**(1), 44-54 (2010).
4. Sun, Y., Sheng, Q., Cheng, Y., et al. *Pharmazie* **68**(2), 141-145 (2013).
5. Sehwat, A., Arlotti, J.A., Murakami, A., et al. *Breast Cancer Res. Treat.* **136**(2), 429-441 (2012).
6. Rahman, H.S., Rasedee, A., How, C.W., et al. *Int. J. Nanomedicine* **8**, 2769-2781 (2013).

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.

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