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Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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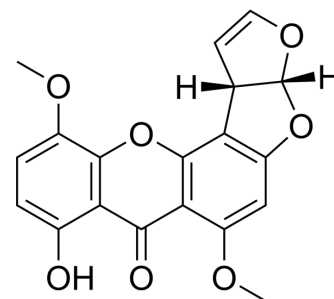
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5-Methoxysterigmatocystin

Cat. No.:	HY-126841
CAS No.:	22897-08-1
Molecular Formula:	C ₁₉ H ₁₄ O ₇
Molecular Weight:	354.31
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

5-Methoxysterigmatocystin is a mycotoxin with cytotoxic and genotoxic properties. 5-Methoxysterigmatocystin exhibits cytotoxicity against cancer cells A549 and HepG2 (IC₅₀ of 5.5 and 0.7 μM), and induces DNA damage. 5-Methoxysterigmatocystin is a photosensitizer, which utilizes the visible to generate singlet oxygen (¹O₂)^{[1][2]}.

REFERENCES

[1]. Dabelić S, et al., Sterigmatocystin, 5-Methoxysterigmatocystin, and Their Combinations Are Cytotoxic and Genotoxic to A549 and Hepg2 Cells and Provoke Phosphorylation of Chk2, but Not Fancd2 Checkpoint Proteins. *Toxins (Basel)*. 2021 Jun 30;13(7):464.

[2]. Espinoza C, et al., Photosensitizer ability of 5-methoxysterigmatocystin isolated from aquatic fungus *Acremonium persicinum*[J]. *Electronic Journal of Biotechnology*, 2023, 62: 21-26.

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

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