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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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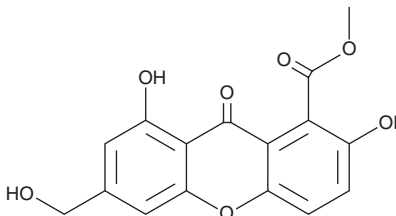
PRODUCT INFORMATION



Sydowinin B

Item No. 31670

CAS Registry No.: 58450-00-3
Formal Name: 2,8-dihydroxy-6-(hydroxymethyl)-9-oxo-9H-xanthene-1-carboxylic acid, methyl ester
Synonym: MS-347b
MF: C₁₆H₁₂O₇
FW: 316.3
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years
Item Origin: Fungi/*Aspergillus sydowii*



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

Laboratory Procedures

Sydowinin B is supplied as a solid. A stock solution may be made by dissolving the sydowinin B in the solvent of choice, which should be purged with an inert gas. Sydowinin B is soluble in methanol and DMSO.

Description

Sydowinin B is a xanthone polyketide that has been found in *A. sydowii* and has immunosuppressant activity.¹ It inhibits LPS- or concanavalin A-induced proliferation of isolated mouse splenic lymphocytes (IC₅₀s = 19.2 and 20.8 μg/ml, respectively).² Sydowinin B inhibits superoxide generation in, and elastase release from, isolated human neutrophils induced by cytochalasin B (Item No. 11328) and N-Formyl-Met-Leu-Phe (fMLF; Item No. 21495) with IC₅₀ values of 21.2 and 12.62 μM, respectively.³

References

1. Hamasaki, T., Sato, Y., and Hatsuda, Y. Structure of sydowinin A, sydowinin B, and sydowinol, metabolites from *Aspergillus sydowii*. *Agr. Biol. Chem.* **39(12)**, 2341-2345 (1975).
2. Liu, H., Chen, S., Liu, W., et al. Polyketides with immunosuppressive activities from mangrove endophytic fungus *Penicillium* sp. ZJ-SY₂. *Mar. Drugs* **14(12)**, 217 (2016).
3. Chung, Y.-M., Wei, C.-K., Chuang, D.-W., et al. An epigenetic modifier enhances the production of anti-diabetic and anti-inflammatory sesquiterpenoids from *Aspergillus sydowii*. *Bioorg. Med. Chem.* **21(13)**, 3866-3872 (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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