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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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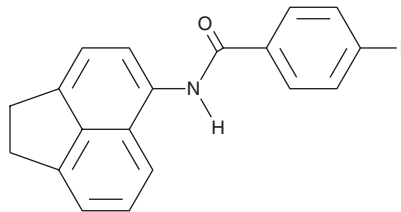
PRODUCT INFORMATION



Questin

Item No. 40904

CAS Registry No.: 3774-64-9
Formal Name: 1,6-dihydroxy-8-methoxy-3-methyl-9,10-anthracenedione
MF: C₁₆H₁₂O₅
FW: 284.3
Purity: ≥70%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Fungus/*Aspergillus terreus*



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

Laboratory Procedures

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

Description

Questin is an anthraquinone that has been found in *A. fumigatus* and has diverse biological activities.¹⁻⁴ It inhibits cell division cycle 25B (Cdc25B) phosphatase (IC₅₀ = 34 µg/ml) and reduces the proliferation of SW620 colon cancer cells (GI₅₀ = 0.9 µg/ml).¹ Questin (50 or 100 µM) reduces the viability of A549 lung cancer cells.² It reduces viral replication in MDCK cells infected with influenza A H1N1 or H3N2 (IC₅₀s = 1.92 and 9.62 µM, respectively).³ Questin decreases proliferation of the protozoa *T. fetus* (MIC = 12.5 µg/ml).⁴

References

1. Choi, S.-G. and Kim, J. Anthraquinones, Cdc25B phosphatase inhibitors, isolated from the roots of *Polygonum multiflorum* Thunb. *Nat. Prod. Res.* **21(6)**, 487-493 (2007).
2. Gauthier, T., Wang, X., Dos Santos, J.S., et al. Trypacidin, a spore-borne toxin from *Aspergillus fumigatus*, is cytotoxic to lung cells. *PLoS One* **7(2)**, e29906 (2012).
3. Liu, N., Peng, S., Yang, J., et al. Structurally diverse sesquiterpenoids and polyketides from a sponge-associated fungus *Aspergillus sydowii* SCSIO41301. *Fitoterapia* **135**, 27-32 (2019).
4. Chaudhary, N.K., Pitt, J.I., Lacey, E., et al. Banksialactones and banksiamarins: Isochromanones and isocoumarins from an Australian fungus, *Aspergillus banksianus*. *J. Nat. Prod.* **81(7)**, 1517-1526 (2018).

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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