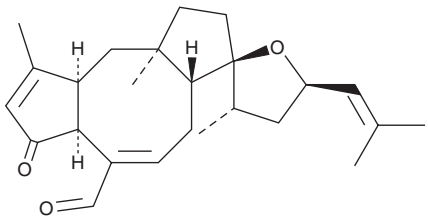
PRODUCT INFORMATION

Anhydroophiobolin A

Item No. 25483

CAS Registry No.: 6026-65-9
Formal Name: (2'S,3'S,3aR,5'R,6aS,9aS,10aR)-2,3a,4,4',5',6a,7,9a,10,10a-decahydro-3',9,10a-trimethyl-5'-(2-methyl-1-propen-1-yl)-7-oxo-spiro[dicyclopenta[a,d]cyclooctene-3(1H),2'(3'H)-furan]-6-carboxaldehyde
Synonyms: Anhydrocochliobolin A, 3-Anhydroophiobolin A
MF: $C_{25}H_{34}O_3$
FW: 382.5
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Fungus/*Bipolaris* sp.



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

Laboratory Procedures

Anhydroophiobolin A is supplied as a solid. A stock solution may be made by dissolving the anhydroophiobolin A in the solvent of choice, which should be purged with an inert gas. Anhydroophiobolin A is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide.

Description

Anhydroophiobolin A is an ophiobolin fungal metabolite that has been found in *C. heterostrophus* fermentation broths.[1] It is cytotoxic to HepG2 and K562 cancer cells (IC_{50}s = 55.7 and 39.5 µM, respectively).[2]

References

1. Li, E., Clark, A.M., Rotella, D.P., *et al.* Microbial metabolites of ophiobolin A and antimicrobial evaluation of ophiobolins. *J. Nat. Prod.* **58(1)**, 74-81 (1995).
2. Wang, Q.-X., Yang, J.-L., Qi, Q.-Y., *et al.* 3-Anhydro-6-hydroxy-ophiobolin A, a new sesterterpene inhibiting the growth of methicillin-resistant *Staphylococcus aureus* and inducing the cell death by apoptosis on K562, from the phytopathogenic fungus *Bipolaris oryzae*. *Bioorg. Med. Chem. Lett.* **23(12)**, 3547-3550 (2013).

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