

Product Data Sheet

Product Name: Ophiobolin A

Cat. No.: GC11782

Chemical Properties

Cas. No. 4611-05-6

Chemical Name (2'S,3'S,3aR,5'R,6aS,9R,9aS,10aR)-1,3a,4,4',5',6a,7,8,9,9a,10,10a-dodecahydro-9-hydroxy-3',9,10a-trimethyl-5'-spiro[dicyclopenta[a,d]cyclooctene-3(2H),2'(3'H)-furan]-6-carboxaldehyde

SMILES C[C@H]1C[C@@H](O[C@]12[C@]3([H])C/C=C([C@]([H])([C@]([H])(C[C@]3(CC2)C)[C@](C4)(C)O)C4=O)/C([H])=O)/C=C(C)\C

Formula C₂₅H₃₆O₄

M.Wt 400.6

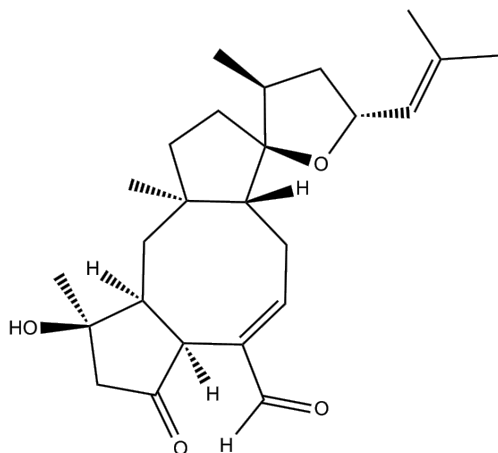
Solubility Soluble in ethanol; Soluble in methanol; Soluble in DMSO; Soluble in dimethyl formamide

Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Ophiobolin A, a fungal metabolite and a phytotoxin, is a potent and irreversibly inhibitor of

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

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calmodulin-activated cyclic nucleotide phosphodiesterase, with an IC₅₀ value of 9 μ M. Ophiobolin A antimicrobial and anticancer activity[1].

References:

[1]. Leung PC, et al. Ophiobolin A. A natural product inhibitor of calmodulin. J Biol Chem. 1984 Mar 10;259(5):2742-7

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