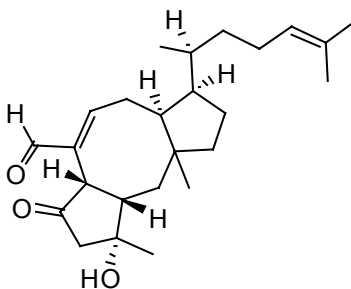


Ophiobolin C

Code: **BIA-O1199**

Pack sizes: **1 mg, 5 mg**



Synonyms : **Zizzanin A**

Specifications

CAS # : **19022-51-6**
Molecular Formula : **C₂₅H₃₈O₃**
Molecular Weight : **386.6**
Source : ***Bipolaris* sp. MST-FP245**
Appearance : **White solid**
Purity : **> 98%**
Long Term Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility**

Application Notes

Ophiobolin C is a member of the ophiobolin class of phytotoxic metabolites produced by many species of the genus *Bipolaris*. Ophiobolin C is an inhibitor of human CCR5 binding to the envelope protein gp120 and CD4 that mediates HIV-1 viral entry into cells. Blockade of this binding was considered by scientists at Merck as a potentially new mode of action for the treatment of HIV-1 infection.

References

1. The structure of zizannin-A and -B, C₂₅-terpenoids isolated from *Helminthosporium zizaniae*. Nozoe S. et al., Tetrahedron Lett. 1966, 7, 2211.
2. Isolation and structure of antagonists of chemokine receptor (CCR5). Jayasuriya et al., H. J. Nat. Prod. 2004, 67, 1036.
3. The biology of ophiobolins. Au T.K. et al., Life Sci. 2000, 67, 733. (Review).