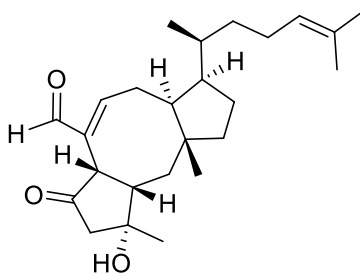


## Ophiobolin C

Code No.: **BIA-O1199**

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



Synonyms : Zizanin A

### Specifications

CAS #	: 19022-51-6
Molecular Formula	: C <sub>25</sub> H <sub>38</sub> O <sub>3</sub>
Molecular Weight	: 386.6
Source	: <i>Bipolaris</i> sp.
Appearance	: Off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor 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 inhibits human CCR5 binding to the envelope protein gp120 and CD4 that mediates HIV-1 entry into cells. Blockade of this binding was considered by scientists at Merck as a potential new mode of action for the treatment of HIV-1 infection.

### References

1. The structure of zizannin-A and -B, C<sub>25</sub>-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).