

Product Name:	Ophiobolin C
Product Number:	O024
CAS Number:	19022-51-6
Molecular Formula:	C ₂₅ H ₃₈ O ₃
Molecular Weight:	386.6
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Ophiobolin C is a member of the ophiobolin class of phytotoxic metabolites produced by many species of the genus <i>Bipolaris</i>.</p> <p>Ophiobolin C is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p>
Mechanism of Action:	<p>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.</p>
References:	<p>The structure of zizannin-A and -B, C₂₅-terpenoids isolated from <i>Helminthosporium zizaniae</i>. Nozoe S. et al. , <i>Tetrahedron Lett.</i> 1966, 7, 2211.</p> <p>Isolation and structure of antagonists of chemokine receptor (CCR5). Jayasuriya et al. , <i>H. J. Nat. Prod.</i> 2004, 67, 1036.</p> <p>The biology of ophiobolins. Au T.K. et al. , <i>Life Sci.</i> 2000, 67, 733. (Review).</p>