

Product Data Sheet

Product Name: (+)-Macrosphelide A

Cat. No.: GC45266

Chemical Properties

Cas. No. 172923-77-2

SMILES O=C(O[C@@H](C)[C@H](O)/C=C/C1=O)C[C@H](C)OC(/C=C/[C@@H](O)[C@H](C)O1)=O

Formula C₁₆H₂₂O₈

M.Wt 342.3

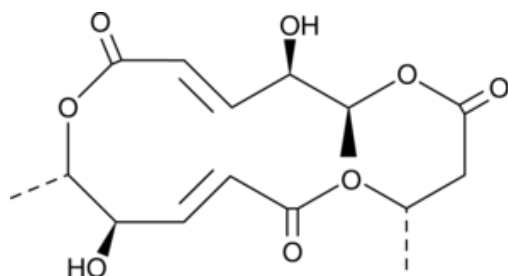
Solubility Chloroform: Soluble, DMSO: Soluble, Methanol: Soluble

Storage Store at -20°C

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

(+)-Macrosphelide A is a fungal metabolite originally isolated from *Microsphaeropsis*. It inhibits adhesion of HL-60 human leukemia cells to human umbilical vein endothelial cells (HUVECs) in a concentration-dependent manner. It also inhibits the growth of SKOV3 ovarian cancer cells in a concentration-dependent manner. (+)-Macrosphelide A inhibits the growth of Gram-positive bacteria, including *B. subtilis*, *M. luteus*, *B. thuringiensis*, and *S. aureus* (MICs = 143, 143, 57, and 57 µg/ml, respectively), but not Gram-negative bacteria or fungi.

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

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