

Product Data Sheet

Product Name: Pyrenophorol

Cat. No.: GC45552

Chemical Properties

Cas. No. 22248-41-5

SMILES O=C(O[C@H](C)CC[C@H](O)/C=C/1)/C=C/[C@@H](O)CC[C@@H](C)OC1=O

Formula C₁₆H₂₄O₆

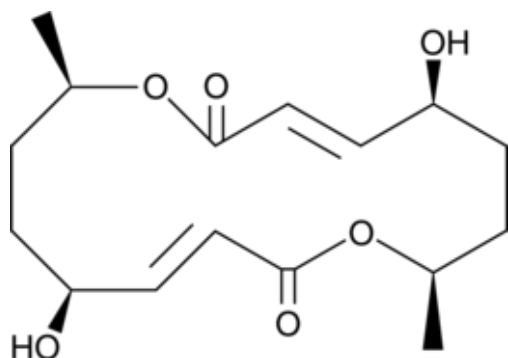
M.Wt 312.4

Solubility DMSO: 5 mg/ml, Methanol: 5 mg/ml 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

Pyrenophorol is a fungal metabolite that has been found in *Alternaria* and has diverse biological activities.^{1,2,3} It inhibits human topoisomerase II α when used at concentrations of 75 and 100 μ M.¹ It is active against *S. cerevisiae* (MIC = 4 μ M) and *M. violaceum*.² Pyrenophorol induces leaf necrosis and chlorophyll retention in wild oats when used at a concentration of 64 μ M.³

References

1. Jarolim, K., Del Favero, G., Ellmer, D., et al. Dual effectiveness of *Alternaria* but not *Fusarium* mycotoxins against human topoisomerase II and bacterial gyrase. *Arch. Toxicol.* 91(4), 2007-2016 (2016).
2. Sumarah, M.W., Kesting, J.R., Sørensen, D., et al. Antifungal metabolites from fungal endophytes

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

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of Pinus strobus. Phytochemistry 72(14-15), 1833-1837 (2011).

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