

Product Data Sheet

Product Name: Funalenone

Cat. No.: GC40849

Chemical Properties

Cas. No. 259728-61-5

SMILES O=C1C(OC)=C(O)C2=C(O)C=C(C)C3=C2C1=C(O)C=C3O

Formula C₁₅H₁₂O₆

M.Wt 288.3

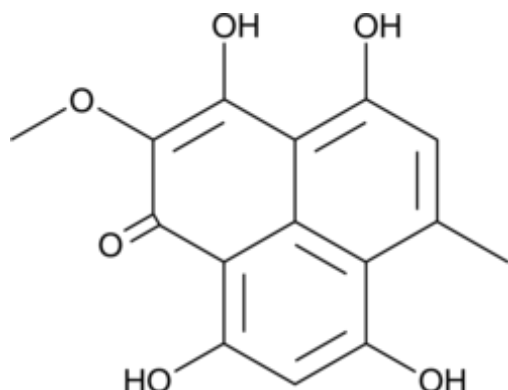
Solubility Soluble in DMSO

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

Funalenone is a phenalenone originally isolated from *A. niger*. It inhibits HIV-1 integrase (IC₅₀ = 10 μM) and HIV-1 replication in human peripheral blood cells transformed by murine leukemia virus (HPB-M(a); IC₅₀ = 1.7 μM) but is less cytotoxic to mammalian HPB-M(a) cells (IC₅₀ = 87 μM). Funalenone selectively inhibits matrix metalloproteinase-1 (MMP-1; IC₅₀ = 170 μM) over MMP-2 and MMP-9, which it inhibits by 18.3 and 38.2%, respectively, when used at a concentration of 400 μM. It also inhibits the bacterial cell wall synthesis enzymes MraY and MurG (IC₅₀s = 25.5 μM in a membrane plate assay) and inhibits growth of *S. aureus* with a MIC value of 64 μg/mL.

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

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