

Product Data Sheet

Product Name: Fusicin
Cat. No.: GC40008

Chemical Properties

Cas. No. 83-85-2

SMILES O=C1OC(C)C(C2=C1)=C(O)C(C3=C2CCC(C)(C)O3)=O

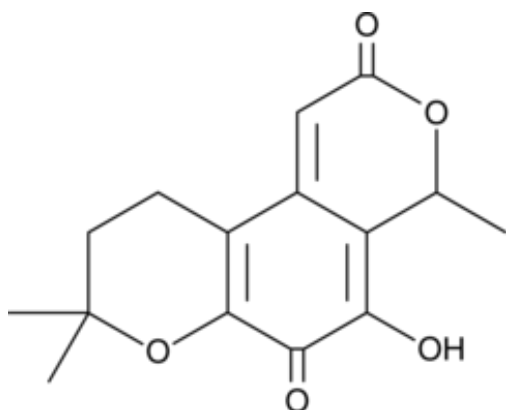
Formula C₁₅H₁₆O₅ M.Wt 276.3

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

Fusicin is a quinonoid fungal metabolite originally isolated from *O. fuscum* that has diverse biological activities. It inhibits binding of the ADP/ATP translocase inhibitor atractyloside to rat liver mitochondria in an ADP-dependent manner when used at a concentration of 50 µM in a radioligand binding assay. Fusicin (20 µM) reduces the glutathione content of rat liver mitochondria to 28% of controls and inhibits NADH oxidation in sonicated pigeon heart mitochondria preparations in a concentration-dependent manner. It competes with macrophage inflammatory protein 1α (MIP-1α) for binding to CCR5 chemokine receptors in vitro with an IC₅₀ value of 21 µM.

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

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