

Product Data Sheet

Product Name: Unguinol
Cat. No.: GC45118

Chemical Properties

Cas. No. 36587-59-4

SMILES CC1=C2C(OC(C=C(O)C=C3C)=C3C(O2)=O)=C(/C(C)=C/C)C=C1O

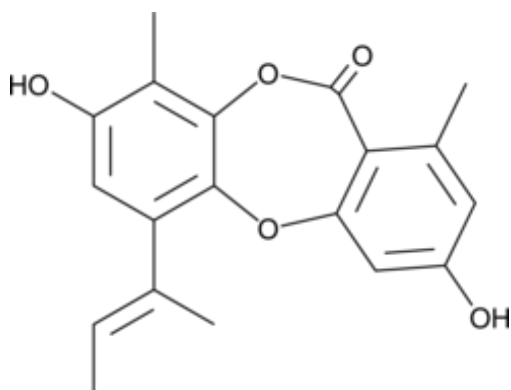
Formula C₁₉H₁₈O₅ M.Wt 326.3

Solubility DMF: soluble, DMSO: soluble, Ethanol: 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 sizes: ship with RT, or blue ice upon request.

Structure



Background

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

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Unguinol is a depsidone originally isolated from *A. unguis*. It is an inhibitor of pyruvate phosphate dikinase (PPDK; $IC_{50} = 42.3 \mu M$). It inhibits the growth of plants utilizing C4, but not C3, carbon fixation. Unguinol also inhibits the growth of the bacteria *S. aureus* and *V. harveyi* ($GI_{50}s = 8.7$ and $69.5 \mu M$, respectively) and H460, MCF-7, and SF-268 cancer cells ($GI_{50}s = 28.2$, 50.8 , and $44.3 \mu M$, respectively).

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