
Product Data Sheet

Product Name: Siccanin
 Cat. No.: GC18510

Chemical Properties

Cas. No. 22733-60-4

Chemical Name (4aS,6aS,11bR,13aS,13bS)-2,3,4,4a,5,6,6a,13b-octahydro-4,4,6a,9-tetramethyl-1H,11bH,13H-benzo[a]furo[2,3,4-mn]xanthen-11-ol

SMILES OC1=CC(C)=CC2=C1[C@@]3([H])[C@@]4([H])[C@@](CC[C@]5([H])[C@@]4(CO3)CCCC5(C)C)(C)O2

Formula C₂₂H₃₀O₃ M.Wt 342.5

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 size: ship with RT, or blue ice upon request.

Structure

Background

Siccanin is an inhibitor of mitochondrial complex II (succinate dehydrogenase; IC₅₀s = 0.87 and 9.3 μM for *P. aeruginosa* and rat mitochondria, respectively). It inhibits the growth of *T. mentagrophytes* (IC₅₀ = 0.3 μg/ml) via inhibition of succinate oxidation in the mitochondria. It also inhibits the growth of *C. albicans* strains with IC₅₀ values ranging from 5-40 and 80-90 μg/ml for aerobic and anaerobic conditions, respectively.

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

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