

Product Data Sheet

Product Name: Anacardic Acid Triene

Cat. No.: GC41531

Chemical Properties

Cas. No. 103904-73-0

SMILES OC1=CC=CC(CCCCCC/C=C\C/C=C\CC=C)=C1C(O)=O

Formula C22H30O3

M.Wt 342.5

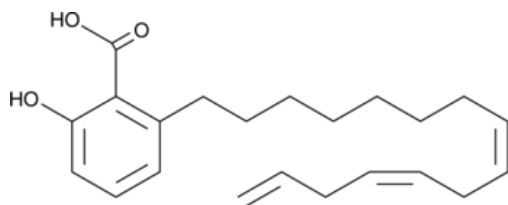
Solubility DMF: 20 mg/mL, DMSO: 15 mg/mL, Ethanol: 22 mg/mL, Ethanol: PBS (pH 7.2) (1:1): 0.5 mg/mL

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

Anacardic acid triene is a polyunsaturated form of anacardic acid that has been found in cashew nut shell liquid. It inhibits soybean lipoxygenase-1 (IC₅₀ = 60 μM in an enzyme assay) and inhibits superoxide production by xanthine oxidase by 82% when used at a concentration of 88 μM.

Anacardic acid triene is active against *S. mutans* and *S. aureus*, including the methicillin-resistant *S. aureus* (MRSA) strain ATCC 33591 (MICs = 1.56, 6.25, and 6.25 μg/ml, respectively). It also inhibits NADH oxidase (IC₅₀ = 1.3 μg/ml), an enzyme involved in bacterial respiration. Anacardic acid triene is molluscicidal, inducing toxicity in *B. glabrata* (LC₅₀ = 0.35 ppm), but is inactive against *S. mansoni* parasites.

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

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