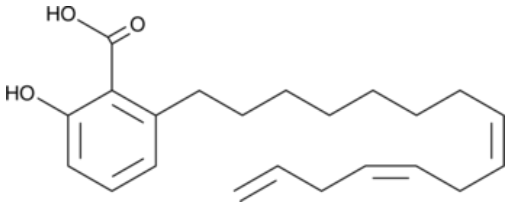
Product Data Sheet

Product Name: Anacardic Acid Triene
Cat. No.: GC41531

Chemical Properties

Cas. No.	103904-73-0		
SMILES	OC1=CC=CC(CCCCCCC/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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