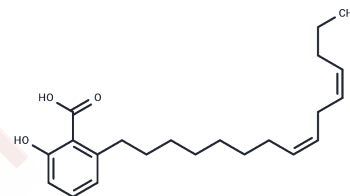


Anacardic Acid Diene

Chemical Properties

CAS No. :	103904-74-1
Formula:	C ₂₂ H ₃₂ O ₃
Molecular Weight:	344.49
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Anacardic acid diene is a polyunsaturated form of anacardic acid found in cashew nut shell liquid. It exhibits antibacterial activity against methicillin-resistant <i>S. aureus</i> (MRSA) and <i>S. mutans</i> with MICs of 12.5 and 6.25 µg/ml, respectively. Anacardic acid diene shows schistosomicidal activity against adult <i>S. mansoni</i> worms at 100 µM and also inhibits soybean lipoxygenase-1 in a time-dependent manner.
Targets(IC50)	Others,Antibacterial

Solubility Information

Solubility	Ethanol:PBS(pH 7.2) (1:1): 0.5 mg/mL (1.45 mM),Sonication is recommended. DMSO: 15 mg/mL (43.54 mM),Sonication is recommended. Ethanol: 22 mg/mL (63.86 mM),Sonication is recommended. DMF: 20 mg/mL (58.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9028 mL	14.5142 mL	29.0284 mL
5 mM	0.5806 mL	2.9028 mL	5.8057 mL
10 mM	0.2903 mL	1.4514 mL	2.9028 mL
50 mM	0.0581 mL	0.2903 mL	0.5806 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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