

Product Name: Anacardic acid

Catalog No.: 3084

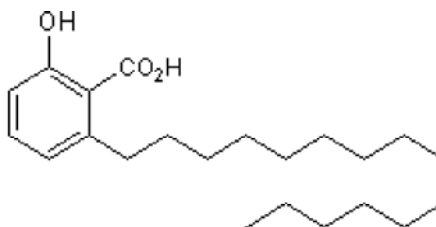
Batch No.: 3

CAS Number: 16611-84-0

IUPAC Name: 2-Hydroxy-6-pentadecylbenzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₆O₃·¼H₂O
Batch Molecular Weight: 353.02
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.85	10.42	
Found	75.25	10.77	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Anacardic acid is a noncompetitive inhibitor of PCAF and p300 histone acetyltransferase (HAT) activity (IC_{50} values are ~ 5.0 and ~ 8.5 μM respectively). Inhibits NF- κB activation. Also reported to selectively activate Aurora kinase A-mediated phosphorylation of histone H3 and to inhibit protein SUMOylation. Exhibits antitumor, antimicrobial and antioxidant activity. Also promotes cardiomyocyte differentiation from mESCs.

Physical and Chemical Properties:

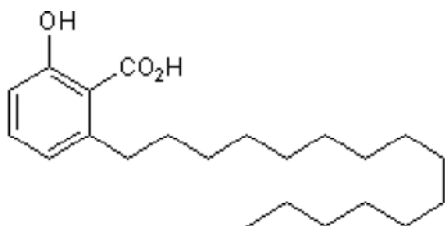
Batch Molecular Formula: $C_{22}H_{36}O_3 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 353.02

Physical Appearance: Beige solid

Minimum Purity: $\geq 97\%$

Batch Molecular Structure:



References:

Re et al (2016) Anacardic acid and thyroid hormone enhance cardiomyocytes production from undifferentiated mouse ES cells along functionally distinct pathways. *Endocrine* **53** 681. PMID: 26547215.

Fukuda et al (2009) Ginkgolic acid inhibits protein SUMOylation by blocking formation of the E1-SUMO intermediate. *Chem.Biol.* **16** 133. PMID: 19246003.

Cui et al (2008) Histone acetyltransferase inhibitor anacardic acid causes changes in global gene expression during in vitro *Plasmodium falciparum* development. *Eurkaryot.Cell* **7** 1200.

Storage: Store at $-20^{\circ}C$

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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