

Product Name: Anacardic acid

Catalog No.: 3084

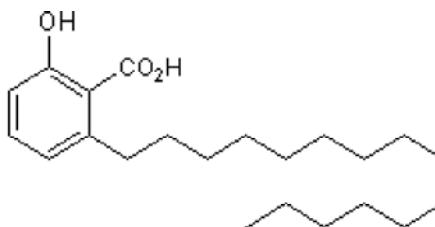
Batch No.: 3

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 97.1% 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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CAS Number: 16611-84-0

IUPAC Name: 2-Hydroxy-6-pentadecylbenzoic acid

Description:

Noncompetitive inhibitor of PCAF and p300 histone acetyltransferase (HAT) activity (IC₅₀ 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:

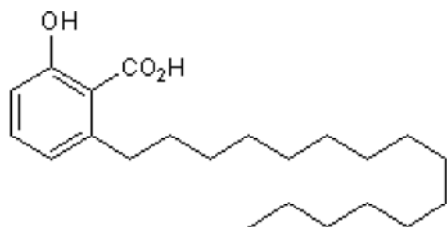
Batch Molecular Formula: C₂₂H₃₆O₃·¼H₂O

Batch Molecular Weight: 353.02

Physical Appearance: Beige solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°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°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°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

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. *Eukaryot.Cell* **7** 1200.

Kishore et al (2008) Specific small molecule activator of aurora kinase A induces autophosphorylation in a cell-free system. *J.Med.Chem.* **51** 792. PMID: 18215015.

Sung et al (2008) Anacardic acid (6-nonadecyl salicylic acid), an inhibitor of histone acetyltransferase, suppresses expression of nuclear factor-κB-regulated gene products involved in cell survival, proliferation, invasion, and inflammation through inhibition of the Blood **111** 4880. PMID: 18349320.

Balasubramanyam et al (2003) Small molecule modulators of histone acetyltransferase p300. *J.Biol.Chem.* **278** 19134. PMID: 12624111.

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