

Certificate of Analysis

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Product Name: Ginkgolic Acid

Catalog No.: 6326

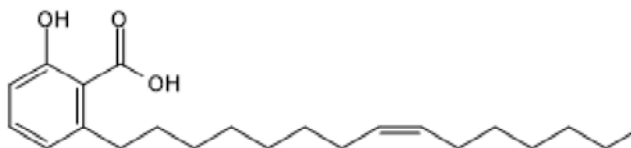
Batch No.: 1

CAS Number: 22910-60-7

IUPAC Name: 2-Hydroxy-6-(8Z)-8-pentadecenylbenzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₄O₃
Batch Molecular Weight: 346.5
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.26	9.89	
Found	76.15	10.1	

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

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Description:

Inhibitor of SUMOylation ($IC_{50} = 3 \mu M$). Directly binds E1 and inhibits formation of E1-SUMO intermediate. Protects against amyloid β -induced impairment of neurotransmission and synaptic plasticity. Also suppresses CD44 and MMP14 expression in breast cancer cells, eliminating cancer stem cells and inhibiting tumorigenesis.

Physical and Chemical Properties:

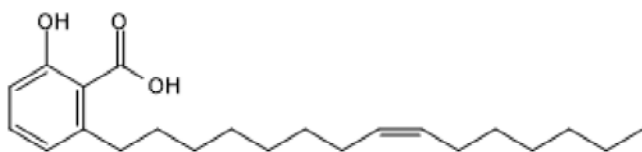
Batch Molecular Formula: $C_{22}H_{34}O_3$

Batch Molecular Weight: 346.5

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



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 100 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.

References:

Bogachek et al (2016) Inhibiting the SUMO pathway represses the cancer stem cell population in breast and colorectal carcinomas. *Stem Cell Reports*. **7** 1140. PMID: 27916539.

Mango et al (2016) Ginkgolic acid protects against $A\beta$ -induced synaptic dysfunction in the hippocampus. *Front.Pharmacol.* **7** 401. PMID: 27833555 .

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

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