

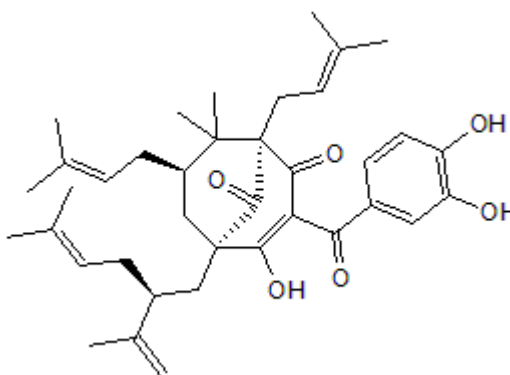
Certificate of Analysis

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Product Name:	Garcinol	Catalog No.:	4827	Batch No.:	1
CAS Number:	78824-30-3	EC Number:	616-656-1		
IUPAC Name:	(1 <i>R</i> ,5 <i>R</i> ,7 <i>R</i>)-3-(3,4-Dihydroxybenzoyl)-4-hydroxy-8,8-dimethyl-1,7-bis(3-methyl-2-buten-1-yl)-5-[(2 <i>S</i>)-5-methyl-2-(1-methylethenyl)-4-hexen-1-yl]bicyclo[3.3.1]non-3-ene-2,9-dione				

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₈H₅₀O₆
Batch Molecular Weight: 602.8
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.71	8.36	
Found	75.34	8.36	

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

Product Information

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IUPAC Name: (1*R*,5*R*,7*R*)-3-(3,4-Dihydroxybenzoyl)-4-hydroxy-8,8-dimethyl-1,7-bis(3-methyl-2-buten-1-yl)-5-[(2*S*)-5-methyl-2-(1-methylethenyl)-4-hexen-1-yl]bicyclo[3.3.1]non-3-ene-2,9-dione

Description:

Inhibitor of PCAF and p300 histone acetyltransferase (HAT) activity (IC₅₀ values are 5 and 7 μ M, respectively). Promotes expansion of human HSCs ex vivo. Causes reversal of EMT and inhibits β -catenin in breast cancer cell lines MDA-MB-231 and BT-549.

Physical and Chemical Properties:

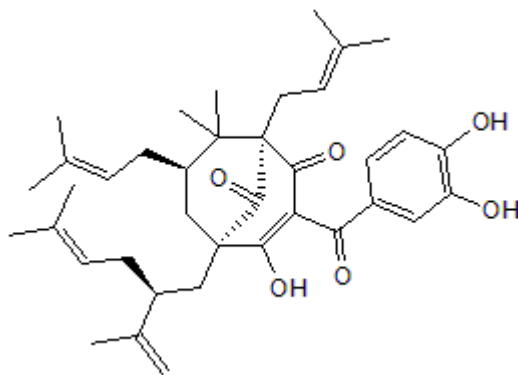
Batch Molecular Formula: C₃₈H₅₀O₆

Batch Molecular Weight: 602.8

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

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

This product has been packed under inert atmosphere, and should be stored under inert atmosphere after use.

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:

Balasubramanyam et al (2004) Polyisoprenylated benzophenone, garcinol, a natural histone acetyltransferase inhibitor, represses chromatin transcription and alters global gene expression. *J.Biol.Chem.* **279** 33716. PMID: 15155757.

Nishino et al (2011) Ex vivo expansion of human hematopoietic stem cells by garcinol, a potent inhibitor of histone acetyltransferase. *PLoS One* **6** e24298. PMID: 21931675.

Ahmad et al (2012) Garcinol regulates EMT and Wnt signaling pathways *in vitro* and *in vivo*, leading to anticancer activity against breast cancer cells. *Mol.Cancer.Ther.* **11** 2193. PMID: 22821148.

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