

Certificate of Analysis

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Product Name: Cardamonin

Catalog No.: 2509

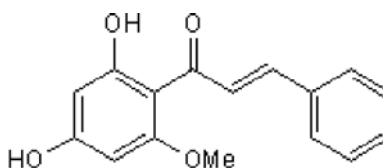
Batch No.: 2

CAS Number: 19309-14-9

IUPAC Name: (2E)-1-(2,4-Dihydroxy-6-methoxyphenyl)-3-phenyl-2-propen-1-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₄O₄
Batch Molecular Weight: 270.28
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.1	5.22	
Found	70.99	5.07	

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

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Description:

Cardamonin is a chalone analog that display anti-inflammatory activity. Inhibits NO and PGE₂ production from LPS- and IFN- γ -induced RAW cells and inhibits TXB₂ production via the COX-1 and COX-2 pathways. Inhibits NF- κ B activation via inhibition of I κ B α degradation and phosphorylation, I κ B kinase activation and NF- κ B nuclear translocation.

Physical and Chemical Properties:

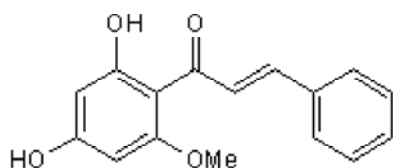
Batch Molecular Formula: C₁₆H₁₄O₄

Batch Molecular Weight: 270.28

Physical Appearance: Yellow solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Israfi et al (2007) Cardamonin inhibits COX and iNOS expression via inhibition of p65NF- κ B nuclear translocation and I κ -B phosphorylation in RAW 264.7 macrophage cells. *Mol.Immunol.* **44** 673. PMID: 16777230.

Ahmad et al (2006) Cardamonin, inhibits pro-inflammatory mediators in activated RAW 264.7 cells and whole blood. *Eur.J.Pharmacol.* **538** 188. PMID: 16650843.

Lee et al (2006) Blockade of nuclear factor- κ B signaling pathway and anti-inflammatory activity of Cardamomin, a chalcone analog from *Alpina conchigera*. *J.Pharmacol.Exp.Ther.* **316** 271. PMID: 16183703.

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