

Product Name: Honokiol

Catalog No.: 4590

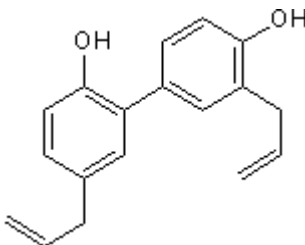
Batch No.: 1

CAS Number: 35354-74-6

IUPAC Name: 5,3'-Diallyl-2,4'-dihydroxybiphenyl

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₈O₂
Batch Molecular Weight: 266.33
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.17	6.81	
Found	81.18	6.84	

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

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IUPAC Name: 5,3'-Diallyl-2,4'-dihydroxybiphenyl

Description:

Anti-inflammatory, antioxidant, antitumor and antiangiogenic agent. Blocks NF-κB activation by a variety of stimuli, including TNF and okadaic acid. Shown to scavenge superoxide and peroxy radicals. Also inhibits a variety of inflammatory responses. Reverses cardiac hypertrophy in mice via SIRT3 activation.

Physical and Chemical Properties:

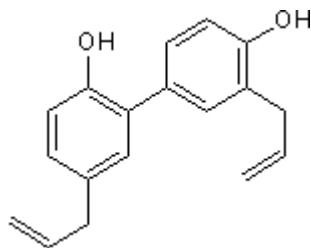
Batch Molecular Formula: C₁₈H₁₈O₂

Batch Molecular Weight: 266.33

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Bai et al (2003) Honokiol, a small molecular weight natural product, inhibits angiogenesis *in vitro* and tumor growth *in vivo*. *J.Biol.Chem.* **278** 35501. PMID: 12816951.

Ahn et al (2006) Honokiol potentiates apoptosis, suppresses osteoclastogenesis, and inhibits invasion through modulation of nuclear factor-κB activation pathway. *Mol.Cancer Res.* **4** 621. PMID: 16966432.

Kim and Cho (2008) Anti-inflammatory effect of honokiol is mediated by PI3K/Akt pathway suppression. *Acta Pharmacol.Sinica* **29** 113. PMID: 18158873.

Dikalov et al (2008) Honokiol is a potent scavenger of superoxide and peroxy radicals. *Biochem.Pharmacol.* **76** 589. PMID: 18640101.

Pillai et al (2015) *Nat.Commun.* **6** 6656. PMID: 25871545.

Storage: Store at +4°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°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.

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