

**Product Name:** Honokiol

**Catalog No.:** 4590

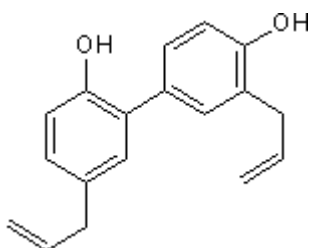
**Batch No.:** 1

**CAS Number:** 35354-74-6

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>18</sub>O<sub>2</sub>  
**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  
**<sup>1</sup>H 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

**Product Name:** Honokiol

**Catalog No.:** 4590

**Batch No.:** 1

**CAS Number:** 35354-74-6

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

**Description:**

Anti-inflammatory, antioxidant, antitumor and antiangiogenic agent. Blocks NF- $\kappa$ B 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.

**Physical and Chemical Properties:**

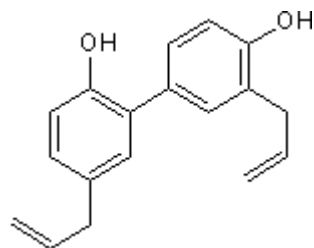
Batch Molecular Formula: C<sub>18</sub>H<sub>18</sub>O<sub>2</sub>

Batch Molecular Weight: 266.33

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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.

**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- $\kappa$ B 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.

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

Tocris Bioscience is an R&D Systems company  
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
www.RnDSystems.com

**R&D**  
SYSTEMS®