LKT Laboratories, Inc.

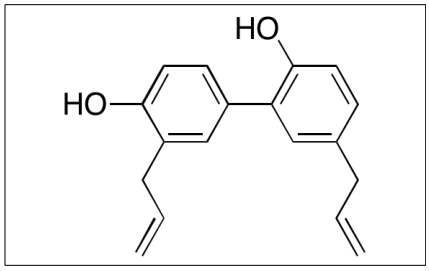
Honokiol

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID H5654
CAS No. 35354-74-6
Chemical Name 3',5-Di-2-propenyl-[1,1'-biphenyl]-2,4'-diol

Synonym 5,3'-diallyl-2,4'-dihydroxydiphenyl



Formula $C_{18}H_{18}O_2$
Formula Wt. 266.33
Melting Point 86-86.5°C
Purity ≥99%
Solubility Soluble in organic solvents and caustic alkali.DMSO to 53 mg/ml,

Bulk quanitites available upon request

Product ID	Size
H5654	10 mg
H5654	25 mg
H5654	100 mg

Store Temp 4°C
Ship Temp Ambient

Description Honokiol is a lignan originally found in species of *Magnolia* that exhibits anticancer chemotherapeutic, anti-angiogenic, antioxidative, neuroprotective, anti-inflammatory, antiviral, antithrombotic, and anxiolytic activities. Honokiol inhibits angiogenesis in epithelial cells and prevents tumor growth in animal models of angiosarcoma; it also suppresses growth and proliferation in oral squamous cell carcinoma cells. In animal models of cerebral ischemia/reperfusion, honokiol inhibits lipid peroxidation, ROS and inflammatory cytokine production, NF-κB activation, and neutrophil recruitment, infiltration, and adhesion. Honokiol also decreases platelet aggregation in vitro and increases time to thrombus formation in vivo. Additionally, this compound potentiates the effects of GABA-A receptors by acting at the benzodiazepine site and also inhibits cell entry and replication of hepatitis C virus and HIV-1. Honokiol also acts as an agonist at PPARγ receptors as wll as agonst at CB1 receptor and an antagonist at the CB2 receptor.

References

Atanasov AG, Wang JN, Gu SP, et al. Honokiol: a non-adipogenic PPARγ agonist from nature. Biochim Biophys Acta. 2013 Oct;1830(10):4813-9. PMID: 23811337.

Zhang P, Liu X, Zhu Y, et al. Honokiol inhibits the inflammatory reaction during cerebral ischemia reperfusion by suppressing NF-κB activation and cytokine production of glial cells. Neurosci Lett. 2013 Feb 8;534:123-7. PMID: 23262090.

Lan KH, Wang YW, Lee WP, et al. Multiple effects of Honokiol on the life cycle of hepatitis C virus. Liver Int. 2012 Jul;32(6):989-97. PMID: 22098176.

Ku TH, Lee YJ, Wang SJ, et al. Effect of honokiol on activity of GAD(65) and GAD(67) in the cortex and hippocampus of mice. Phytomedicine. 2011 Oct 15;18(13):1126-9. PMID: 21561750.

Chen XR, Lu R, Dan HX, et al. Honokiol: a promising small molecular weight natural agent for the growth inhibition of oral squamous cell carcinoma cells. Int J Oral Sci. 2011 Jan;3(1):34-42. PMID: 21449214

Hu H, Zhang XX, Wang YY, et al. Honokiol inhibits arterial thrombosis through endothelial cell protection and stimulation of prostacyclin. Acta Pharmacol Sin. 2005 Sep;26(9):1063-8. PMID: 16115372.

Liou KT, Shen YC, Chen CF, et al. Honokiol protects rat brain from focal cerebral ischemia-reperfusion injury by inhibiting neutrophil infiltration and reactive oxygen species production. Brain Res. 2003 Dec 5;992(2):159-66. PMID: 14625055.