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DATASHEET

Honokiol

Product overview

Name	Honokiol
Cat No	HB0328
Biological action	Inhibitor
Purity	>98%
Description	Phosphoinositide 3-kinase (PI3K)/Akt pathway inhibitor

Images



Biological Data

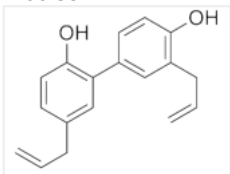
Biological description	Phosphoinositide 3-kinase (PI3K)/Akt pathway inhibitor. Inhibits NO, prostaglandin E2 and TNF- α production. Inhibits NF κ B and scavenges superoxide and peroxy radicals. Shows anti-inflammatory, antitumor and anti-angiogenic actions.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100 mM) and in ethanol (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	3,5'-Diallyl-4,2'-dihydroxybiphenyl
Molecular Weight	266.33
Chemical structure	



Molecular Formula	C ₁₈ H ₁₈ O ₂
CAS Number	35354-74-6

PubChem identifier	72303
SMILES	<chem>C=CCC1=CC(=C(C=C1)O)C2=CC(=C(C=C2)O)CC=C</chem>
InChi	InChI=1S/C18H18O2/c1-3-5-13-7-9-18(20)16(11-13)14-8-10-17(19)15(12-14)6-4-2/h3-4,7-12,19-20 H,1-2,5-6H2
InChiKey	FVYXIJYOAGAUQK-UHFFFAOYSA-N
MDL number	MFCD00016674

References

Anti-inflammatory effect of honokiol is mediated by PI3K/Akt pathway suppression.

Kim BH *et al* (2008) *Acta Pharmacol Sin* 29(1)

PubMedID [18158873](#)

Honokiol is a potent scavenger of superoxide and peroxy radicals.

Dikalov S *et al* (2008) *Biochem Pharmacol* 76(5)

PubMedID [18640101](#)

Down-modulation of Bcl-XL, release of cytochrome c and sequential activation of caspases during honokiol-induced apoptosis in human squamous lung cancer CH27 cells.

Yang SE *et al* (2002) *Biochem Pharmacol* 63(9)

PubMedID [12007567](#)

Inhibitors of nitric oxide synthesis and TNF-alpha expression from Magnolia obovata in activated macrophages.

Son HJ *et al* (2000) *Planta Med* 66(5)

PubMedID [10909270](#)
