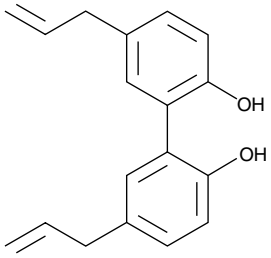
Product Information

Magnolol

Item No. 14233

CAS Registry No.:	528-43-8
Formal Name:	5,5'-di-2-propen-1-yl-[1,1'-biphenyl]-2,2'-diol
Synonym:	NSC 293099
MF:	$C_{18}H_{18}O_2$
FW:	266.3
Purity:	≥98%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid
UV/Vis.:	λ_{max}: 215, 292 nm



Laboratory Procedures

For long term storage, we suggest that magnolol be stored as supplied at -20°C. It should be stable for at least two years.

Magnolol is supplied as a crystalline solid. A stock solution may be made by dissolving the magnolol in the solvent of choice. Magnolol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of magnolol in ethanol and DMF is approximately 20 mg/ml and approximately 16 mg/ml in DMSO.

Magnolol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, magnolol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Magnolol has a solubility of approximately 0.16 mg/ml in a 1:5 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Magnolol is a bioactive compound isolated from the bark of *M. officinalis* that has been used in Asian traditional medicine for the treatment of anxiety, sleep disorders, and allergic diseases. Magnolol can activate cannabinoid (CB) receptors, behaving as a partial agonist with selectivity for the peripheral CB_2 subtype (EC_{50} = 3.28 µM; K_i = 1.44 µM) *versus* central CB_1 (EC_{50} = 18.3 µM; K_i = 3.15 µM).[1]

Reference

1. Rempel, V., Fuchs, A., Hinz, S., *et al.* Magnolia extract, magnolol, and metabolites: Activation of cannabinoid CB_2 receptors and blockade of the related GPR55. *ACS Med. Chem. Lett.* **4**, 41-45 (2013).

Related Products

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