Guaiacin

Cat. No.: HY-N2247

CAS No.: 36531-08-5

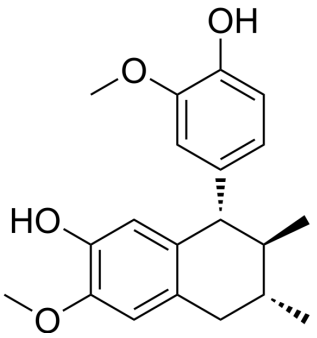
Molecular Formula: $C_{20}H_{24}O_4$

Molecular Weight: 328.4

Target: Phosphatase

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (152.25 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0451 mL	15.2253 mL	30.4507 mL
	5 mM	0.6090 mL	3.0451 mL	6.0901 mL
	10 mM	0.3045 mL	1.5225 mL	3.0451 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.25 mg/mL (3.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Guaiacin is a arylnaphthalene type lignin isolated from the barks of Machilus thunbergii SIEB. et ZUCC (Lauraceae). Guaiacin significantly increases alkaline phosphatase activity and osteoblast differentiation[1].

REFERENCES

[1]. Lee MK, et al. Stimulatory activity of lignans from Machilus thunbergii on osteoblast differentiation. Biol Pharm Bull. 2007 Apr;30(4):814-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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