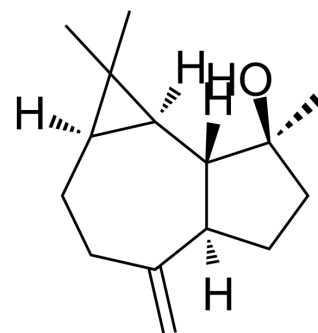


Spathulenol

Cat. No.:	HY-N1205
CAS No.:	6750-60-3
Molecular Formula:	C ₁₅ H ₂₄ O
Molecular Weight:	220.35
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (453.82 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		4.5382 mL	22.6912 mL	45.3823 mL
	5 mM		0.9076 mL	4.5382 mL	9.0765 mL
	10 mM		0.4538 mL	2.2691 mL	4.5382 mL

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

BIOLOGICAL ACTIVITY

Description

Spathulenol is isolated from *Aristolochia yunnanensis*, and has antioxidant, anti-inflammatory, antiproliferative and antimycobacterial activities. Spathulenol shows a high antioxidant activity with an IC₅₀ of 85.60 µg/mL in the DPPH system [1].

In Vitro

Spathulenol exhibits a high antioxidant activity in the DPPH and MDA system, exhibits significant DPPH free radical activity, with IC₅₀ values of 85.60 µg/mL^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Spathulenol (oral administration; 300 mg/kg) shows a significant inhibition in the Cg-induced mice paw oedema and pleurisy model^[1].

In a spontaneous lipoperoxidation rat brain homogenate model, when incubated in controlled temperature and oxygenation conditions, PG-1 exhibits a high activity with an IC₅₀ value of 26.13 µg/mL, respectively, which is comparable to a commercial antioxidant BHT (38.41 µg/mL), Thus, PG-1 contributes to a decrease in the generation of MDA, which is a toxic product resulting from the degradation of the cell membrane by lipid peroxidation, causing cell ruptures and mutations^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nascimento KF, et al. Antioxidant, anti-inflammatory, antiproliferative and antimycobacterial activities of the essential oil of *Psidium guineense* Sw. and spathulenol. *J Ethnopharmacol.* 2018 Jan 10;210:351-358.

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

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