(±)-Licarin A

Cat. No.: HY-N2449

CAS No.: 23518-30-1

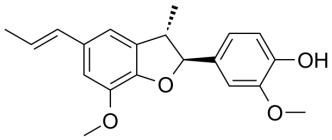
Molecular Formula: $C_{20}H_{22}O_4$

Molecular Weight: 326.39

Target: Parasite

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (306.38 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0638 mL	15.3191 mL	30.6382 mL
	5 mM	0.6128 mL	3.0638 mL	6.1276 mL
	10 mM	0.3064 mL	1.5319 mL	3.0638 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (7.66 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.66 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(±)-Licarin A ((±)-trans-Dehydrodiisoeugenol) is a dihydrobenzofuran neolignan, the resultant of an oxidative coupling reaction of isoeugenol and horseradish peroxidase (HRP) enzyme. (±)-Licarin A displays 58.7% parasite lysis and has an IC_{50} value of 100.8 μM for trypanocidal activity against trypomastigote forms of T. cruzi. And (±)-Licarin A shows 100% parasites mortality at 200 μM[1].

REFERENCES

[1]. Meleti VR, et al. (±)-licarin A and its semi-synthetic derivatives: in vitro and in silico evaluation of trypanocidaland schistosomicidal activities. Acta Trop. 2019 Oct 29:105248.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA