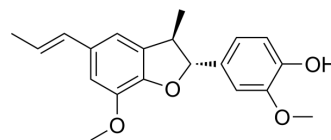


## Licarin A

Cat. No.:	HY-N2252
CAS No.:	51020-86-1
Molecular Formula:	C <sub>20</sub> H <sub>22</sub> O <sub>4</sub>
Molecular Weight:	326.39
Target:	TNF Receptor; Prostaglandin Receptor; COX
Pathway:	Apoptosis; GPCR/G Protein; Immunology/Inflammation
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 (153.19 mM)  
 H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	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.

### BIOLOGICAL ACTIVITY

#### Description

Licarin A ((+)-Licarin A), a neolignan, significantly and dose-dependently reduces TNF- $\alpha$  production (IC<sub>50</sub>=12.6  $\mu$ M) in dinitrophenyl-human serum albumin (DNP-HSA)-stimulated RBL-2H3 cells. Anti-allergic effects. Licarin A reduces TNF- $\alpha$  and PGD<sub>2</sub> production, and COX-2 expression<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

DP

#### In Vitro

Licarin A is found in plants such as Aristolochia taliscana, Machilus thunbergii and Myristica fragrans, which are used as spices and in folk medicines for nervous and digestive disorders. Licarin A also exhibits anti-inflammatory effects<sup>[1]</sup>. Licarin A (5-20  $\mu$ M) reduces TNF- $\alpha$  and prostaglandin D<sub>2</sub> (PGD<sub>2</sub>) secretion via the inhibition of PKC $\alpha$ / $\beta$ II and p38 MAPK pathways. Licarin A treatment tends to reduce phosphorylated PKC $\alpha$ / $\beta$ II and p38 MAPK protein levels<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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