

Licarin A

Chemical Properties

CAS No. : 51020-86-1

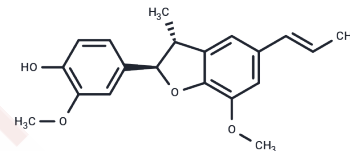
Formula: C₂₀H₂₂O₄

Molecular Weight: 326.39

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

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|---------------|---|
| Description | Licarin A is a natural anti-inflammatory lignan that inhibiting PKC α / β II and p38 MAPK pathways, thereby decreasing TNF- α and prostaglandin D2 (PGD2) secretion as well as COX-2 expression. |
| Targets(IC50) | COX,p38 MAPK,Prostaglandin Receptor,TNF |
| In vitro | Methods: DNP-HSA-stimulated RBL-2H3 cells were treated with Licarin A (0-20 μ M) to study the antiallergic effect on antigen-stimulated rat mast cell line. Results: The level of PGD2 secretion in DNP-HSA-stimulated cells pretreated with Licarin A was lower than that in cells stimulated with DNP-HSA alone (positive control); 20 μ M Licarin A treatment produced a slight inhibition of DNP-HSA-induced increase in COX-2 mRNA and protein levels; Licarin A reduced TNF- α and PGD2 secretion by inhibiting PKC α / β II and p38 MAPK pathways; this compound may be useful in alleviating immediate hypersensitivity reactions. [5] |

Solubility Information

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|------------|--|
| Solubility | DMSO: 40 mg/mL (122.55 mM),Sonication is recommended. H ₂ O: < 0.1(insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 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 |
| 50 mM | 0.0613 mL | 0.3064 mL | 0.6128 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Matsui T, Ito C, et al, Itoigawa M. Licarin A is a candidate compound for the treatment of immediate hypersensitivity via inhibition of rat mast cell line RBL-2H3 cells. *J Pharm Pharmacol.* 2015 Dec;67(12):1723-32. doi: 10.1111/jphp.12475. Epub 2015 Sep 17. PubMed PMID: 26376734.
- Néris PL, et al. Neolignan Licarin A presents effect against Leishmania (*Leishmania*) major associated with immunomodulation in vitro. *Exp Parasitol.* 2013 Oct;135(2):307-13.
- León-Díaz R, et al. Antitubercular activity and the subacute toxicity of (-)-Licarin A in BALB/c mice: a neolignan isolated from *Aristolochia taliscana*. *Arch Med Res.* 2013 Feb;44(2):99-104.
- Pereira AC, et al. Enantiomeric resolution of (±)-licarin A by high-performance liquid-chromatography using a chiral stationary phase. *J Chromatogr A.* 2011 Sep 28;1218(39):7051-4.
- Matsui T, et al. Licarin A is a candidate compound for the treatment of immediate hypersensitivity via inhibition of rat mast cell line RBL-2H3 cells. *J Pharm Pharmacol.* 2015 Dec;67(12):1723-32.

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