β-Naphthoflavone

Cat. No.: HY-114740

CAS No.: 6051-87-2

Molecular Formula: $C_{19}H_{12}O_2$

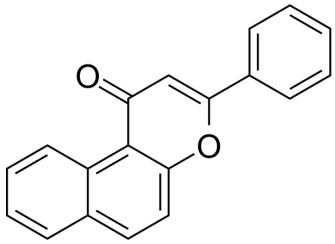
Molecular Weight: 272.3

Target: Aryl Hydrocarbon Receptor; Apoptosis

Pathway: Immunology/Inflammation; Apoptosis

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (91.81 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.6724 mL	18.3621 mL	36.7242 mL
	5 mM	0.7345 mL	3.6724 mL	7.3448 mL
	10 mM	0.3672 mL	1.8362 mL	3.6724 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: 1 mg/mL (3.67 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (3.67 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

β-Naphthoflavone is a non-carcinogenic AhR agonist as a positive control for the induction of AhR transcriptional activity[1]. β-Naphthoflavone inhibits hydrogen peroxide-induced apoptosis[2].

CUSTOMER VALIDATION

- Phytomedicine. 2023 Mar 24;114:154774.

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REFERENCES

[1]. Ishida T, Takechi S. β-Naphthoflavone, an exogenous ligand of aryl hydrocarbon receptor, disrupts zinc homeostasis in human hepatoma HepG2 cells. J Toxicol Sci. 2019;44(10):711-720.

[2]. Zhu Y, et al. α- and β-Naphthoflavone synergistically attenuate H2O2-induced neuron SH-SY5Y cell damage. Exp Ther Med. 2017 Mar;13(3):1143-1150.

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