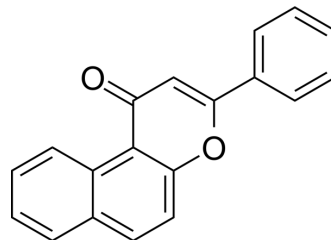


β-Naphthoflavone

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)

Concentration	Mass		
	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

- 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
- 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.

See more customer validations on www.MedChemExpress.com

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

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