Notopterol

Cat. No.: HY-N0564

CAS No.: 88206-46-6

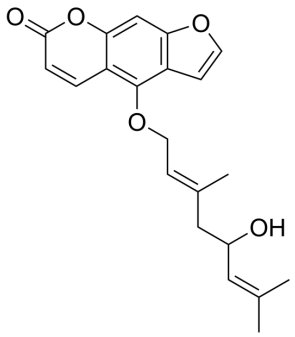
Molecular Formula: $C_{21}H_{22}O_5$

Molecular Weight: 354.4

Target: Apoptosis

Pathway: Apoptosis

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (282.17 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	2.8217 mL	14.1084 mL	28.2167 mL
	5 mM	0.5643 mL	2.8217 mL	5.6433 mL
	10 mM	0.2822 mL	1.4108 mL	2.8217 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 (7.05 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 (7.05 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.05 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Notopterol is a coumarin extracted from N. incisum. Notopterol induces apoptosis and has antipyretic, analgesic and anti-inflammatory effects. Notopterol is used for acute myeloid leukemia (AML)[1].

In Vitro

notopterol (5, 10, 20, 40, 60 μM; for 48 hours) promotes cell apoptosis in a dose-dependent manner[1].
notopterol (10, 20, 40, 60 and 80 μM; 24-120 hours) inhibits the proliferation of HL-60 cells in a concentration-dependent manner[1].
Notopterol (5, 10, 20 and 40 μM; for 48 hours) induces G0/G1 phase arrest associated with cell-cycle proteins in HL-60 cells[1].

Notopterol (5, 10, 20 and 40 μM; for 48 hours) increases the expression of Bax and decreased the expression of Bcl-2 and Mcl-

	1 in HL-60 cells after 48-hr treatment. Moreover, Notopterol also promotes the cleavage of caspase 9, caspase 3 and PARP[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nutrients. 2023 May 24, 15(11), 2447.

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REFERENCES

[1]. Huang Q, et al. Notopterol-induced apoptosis and differentiation in human acute myeloid leukemia HL-60 cells. Drug Des Devel Ther. 2019 Jun 6;13:1927-1940.

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

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