# Eupatorin

**Cat. No.:** HY-N2374

**CAS No.:** 855-96-9

**Molecular Formula:** $C_{18}H_{16}O_7$

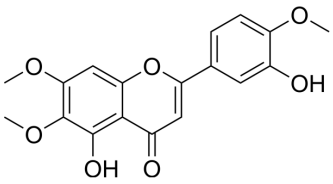
**Molecular Weight:** 344.32

**Target:** Apoptosis

**Pathway:** 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 : 250 mg/mL (726.07 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.9043 mL | 14.5214 mL | 29.0428 mL |
| | 5 mM | 0.5809 mL | 2.9043 mL | 5.8085 mL |
| | 10 mM | 0.2904 mL | 1.4521 mL | 2.9043 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: ≥ 2.08 mg/mL (6.04 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Eupatorin, a naturally occurring flavone, arrests cells at the G2-M phase of the cell cycle and induces apoptotic cell death involving activation of multiple caspases, mitochondrial release of cytochrome c and poly(ADP-ribose) polymerase cleavage [1].

## REFERENCES

[1]. Estévez S, et al. Eupatorin-induced cell death in human leukemia cells is dependent on caspases and activates the mitogen-activated protein kinase pathway. PLoS One. 2014 Nov 12;9(11):e112536.

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

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