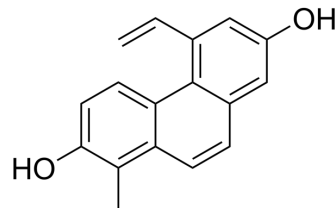


Dehydroeffusol

Cat. No.:	HY-N5058
CAS No.:	137319-34-7
Molecular Formula:	C ₁₇ H ₁₄ O ₂
Molecular Weight:	250.29
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (399.54 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>3.9954 mL</td> <td>19.9768 mL</td> <td>39.9537 mL</td> </tr> <tr> <td>5 mM</td> <td>0.7991 mL</td> <td>3.9954 mL</td> <td>7.9907 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3995 mL</td> <td>1.9977 mL</td> <td>3.9954 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	3.9954 mL	19.9768 mL	39.9537 mL	5 mM	0.7991 mL	3.9954 mL	7.9907 mL	10 mM	0.3995 mL	1.9977 mL	3.9954 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.99 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.99 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.99 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Dehydroeffusol is a phenanthrene from medicinal herb <i>Juncus effuses</i> . Dehydroeffusol inhibits gastric cancer cell growth and tumorigenicity by selectively inducing tumor-suppressive endoplasmic reticulum stress and a moderate apoptosis. It shows very low toxicity ^{[1][2]} .
In Vitro	Dehydroeffusol suppresses the expression of vasculogenic mimicry key gene VE-cadherin ^[2] . Dehydroeffusol decreases the MMP2 expression and activity in gastric cancer cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Zhang B, et al. Dehydroeffusol inhibits gastric cancer cell growth and tumorigenicity by selectively inducing tumor-suppressive endoplasmic reticulum stress and a moderate apoptosis. *Biochem Pharmacol.* 2016 Mar 15;104:8-18.
- [2]. Liu W, et al. Dehydroeffusol effectively inhibits human gastric cancer cell-mediated vasculogenic mimicry with low toxicity. *Toxicol Appl Pharmacol.* 2015 Sep 1;287(2):98-110.
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Caution: Product has not been fully validated for medical applications. For research use only.

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