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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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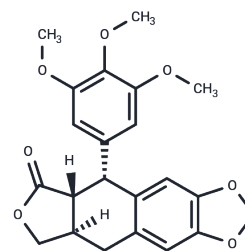
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Deoxypodophyllotoxin

Chemical Properties

CAS No. :	19186-35-7
Formula:	C ₂₂ H ₂₂ O ₇
Molecular Weight:	398.41
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Deoxypodophyllotoxin shows cytotoxic , antineoplastic, antitumor, insecticidal, anti-angiogenic, vascular disrupting, insecticidal, antiviral, and anti-inflammatory activities.
Targets(IC50)	Apoptosis, Microtubule Associated, Autophagy
In vitro	Deoxypodophyllotoxin (DPT) induced both apoptosis and autophagy via production of mitochondrial reactive oxygen species (ROS).?DPT suppressed the PI3K/AKT/mTOR signaling cascades to lead autophagy process, resulting from conversion of light chain 3-I (LC3-I) into LC3-II and acidic vesicular organelles (AVOs) formation.?Even if DPT-induced ROS were occurred in both apoptosis and autophagy, inhibition of ROS generation enhanced cell viability.?Otherwise, 3-methyladenine (3-MA) impeding on autophagy accelerated an apoptotic response caused by DPT.?Therefore, these findings suggest that DPT triggers cytoprotective autophagy against cytotoxic apoptosis[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (138.05 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.510 mL	12.5499 mL	25.0998 mL
5 mM	0.502 mL	2.510 mL	5.020 mL
10 mM	0.251 mL	1.255 mL	2.510 mL
50 mM	0.0502 mL	0.251 mL	0.502 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Kim SH, et al. Deoxypodophyllotoxin induces cytoprotective autophagy against apoptosis via inhibition of PI3K/AKT/mTOR pathway in osteosarcoma U2OS cells. Pharmacol Rep. 2017 Oct;69(5):878-884.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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