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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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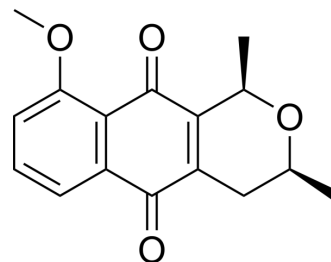
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Eleutherin

Cat. No.:	HY-N8248
CAS No.:	478-36-4
Molecular Formula:	C ₁₆ H ₁₆ O ₄
Molecular Weight:	272.3
Target:	Topoisomerase
Pathway:	Cell Cycle/DNA Damage
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 : 16.67 mg/mL (61.22 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent 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	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline					
	Solubility: ≥ 1.67 mg/mL (6.13 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Eleutherin is a type of naphthoquinone derivative with the protective effect against the injury of human umbilical vein endothelial cells (HUVECs), which can be isolated from the edible bulbs of Eleutherine americana (Hong-Cong) ^[1] .
In Vitro	Eleutherin inhibits topoisomerase II by inducing religation and dissociation of the enzyme from DNA in the presence of ATP ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chen D, et al. New naphthoquinones derivatives from the edible bulbs of Eleutherine americana and their protective effect on the injury of human umbilical vein endothelial cells. Fitoterapia. 2019 Jan;132:46-52.

[2]. Castro ALG, et, al. Evaluation of the genotoxicity and mutagenicity of isoeleutherin and eleutherin isolated from Eleutherine plicata herb. using bioassays and in silico approaches. Arabian Journal of Chemistry. Volume 14, Issue 4, April 2021, 103084.

[3]. Krishnan P, et, al. Novel mechanisms of DNA topoisomerase II inhibition by pyranonaphthoquinone derivatives-eleutherin, alpha lapachone, and beta lapachone. Biochem Pharmacol. 2000 Nov 1;60(9):1367-79.

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

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