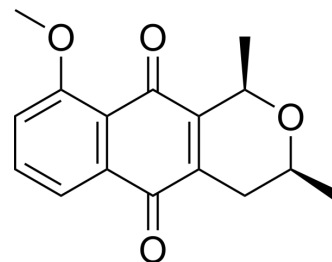


Eleutherin

Cat. No.:	HY-N8248
CAS No.:	478-36-4
Molecular Formula:	C ₁₆ H ₁₆ O ₄
Molecular Weight:	272.3
Target:	Topoisomerase; Others
Pathway:	Cell Cycle/DNA Damage; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



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 <i>Eleutherine americana</i> (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 naphthoquinone 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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