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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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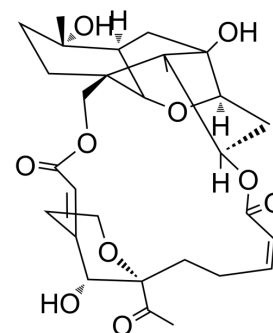
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Myrothecine A

Cat. No.:	HY-N8508
CAS No.:	910292-40-9
Molecular Formula:	C ₂₉ H ₃₈ O ₁₀
Molecular Weight:	546.61
Target:	Apoptosis; Cytochrome P450; PARP; JNK; Bcl-2 Family; Caspase
Pathway:	Apoptosis; Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Epigenetics; MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Myrothecine A is a trichothecene mycotoxin found in <i>M. roridum</i> . Myrothecine A induces apoptosis, promotes the cytochrome c release, PARP-cleavage and phosphorylation of JNK, increases Bax and cleaved caspase-3, -5, and -8 levels. Myrothecine A has anticancer activities and promotes the maturation of DC cells in the microenvironment. Myrothecine A inhibits proliferation of A549, MCF-7, HepG2, and SMMC-7721 cancer cells with IC ₅₀ s of 95, 70, 60, and 25 μM, respectively ^[1] [2][3].			
IC₅₀ & Target	Caspase 3	Caspase-5	Caspase-8	Bax

REFERENCES

- [1]. 1. Fu Y, et al. Myrothecine A modulates the proliferation of HCC cells and the maturation of dendritic cells through downregulating miR-221. *Int Immunopharmacol*. 2019 Oct;75:105783.
- [2]. 2. Lin T, et al. Structure elucidation and biological activity of two new trichothecenes from an endophyte, *Myrothecium roridum*. *J Agric Food Chem*. 2014 Jun 25;62(25):5993-6000.
- [3]. 3. Song H, et al. Mytoxin B and Myrothecine A Induce Apoptosis in Human Hepatocarcinoma Cell Line SMMC-7721 via PI3K/Akt Signaling Pathway. *Molecules*. 2019 Jun 20;24(12):2291.

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

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