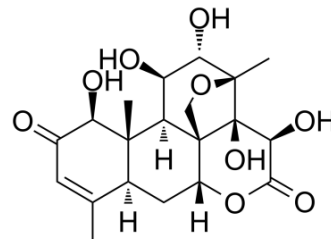


Bruceine D

Cat. No.:	HY-N3014
CAS No.:	21499-66-1
Molecular Formula:	C ₂₀ H ₂₆ O ₉
Molecular Weight:	410.42
Target:	Notch; Apoptosis
Pathway:	Neuronal Signaling; Stem Cell/Wnt; Apoptosis
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Bruceine D is a Notch inhibitor with anti-cancer activity and induces apoptosis in several human cancer cells. Bruceine D is an effective botanical insect antifeedant with outstanding systemic properties, causing potent pest growth inhibitory activity ^{[1][2]} .
IC₅₀ & Target	Notch ^[1]
In Vitro	Bruceine D inhibits the cell viability of H460 and A549 cells in a dose-dependent manner with IC ₅₀ values of 0.5 and 0.6 μM, respectively, at 48 h of treatment ^[1] . Bruceine D (0.125-1.0 μM) dose-dependently promotes chromatin condensation, Annexin V-positive cell population and caspase-dependent apoptosis in H460 and A549 cells ^[1] .

REFERENCES

[1]. Mao G, et al. Bruceine D Isolated from Brucea Javanica (L.) Merr. as a Systemic Feeding Deterrent for Three Major Lepidopteran Pests. J Agric Food Chem. 2019 Apr 17;67(15):4232-4239.

[2]. Cheng Z, et al. Bruceine D inhibits hepatocellular carcinoma growth by targeting β-catenin/jagged1 pathways. Cancer Lett. 2017 Sep 10;403:195-205.

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

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