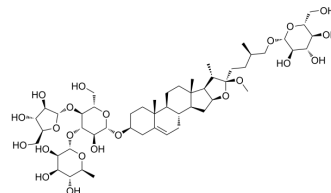


Polyphyllin G

Cat. No.:	HY-N0817
CAS No.:	76296-75-8
Molecular Formula:	C ₅₁ H ₈₄ O ₂₂
Molecular Weight:	1049.2
Target:	Apoptosis; Autophagy; Bacterial
Pathway:	Apoptosis; Autophagy; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Polyphyllin G is isolated from the rhizomes of *Paris yunnanensis*, with antimicrobial and anticancer activity. Polyphyllin G prevents the growth of both Gram-positive and Gram-negative bacteria with minimum inhibitory concentrations (MICs)^[1]. Polyphyllin G induces apoptosis dependent on the activations of caspase-8, -3, and -9, induces autophagy^[2].

REFERENCES

[1]. Cai X, et al. Polyphyllin G exhibits antimicrobial activity and exerts anticancer effects on human oral cancer OECM-1 cells by triggering G2/M cell cycle arrest by inactivating cdc25C-cdc2. *Arch Biochem Biophys*. 2018 Apr 15;644:93-99.

[2]. Hsieh MJ, et al. Polyphyllin G induces apoptosis and autophagy cell death in human oral cancer cells. *Phytomedicine*. 2016 Dec 1;23(13):1545-1554.

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

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