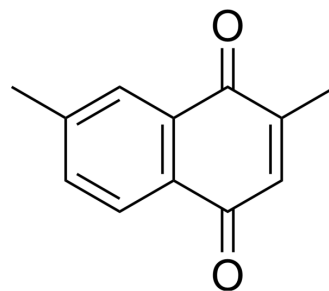


Chimaphilin

Cat. No.:	HY-N6611
CAS No.:	482-70-2
Molecular Formula:	C ₁₂ H ₁₀ O ₂
Molecular Weight:	186.21
Target:	IGF-1R
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Chimaphilin is an IGF-1R inhibitor (IC ₅₀ : 0.086 μM). Chimaphilin has antifungal, antioxidant and anticancer activities. Chimaphilin inhibits the growth of both drug-sensitive and drug-resistant osteosarcoma cell lines. Chimaphilin can induce cancer cell apoptosis. Chimaphilin is a main component of pyrola ^{[1][2]} .
IC ₅₀ & Target	0.086 μM (IGF-1R) ^[1]

REFERENCES

[1]. Daqian W, et al. Chimaphilin inhibits proliferation and induces apoptosis in multidrug resistant osteosarcoma cell lines through insulin-like growth factor-I receptor (IGF-1R) signaling. *Chem Biol Interact.* 2015 Jul 25;237:25-30.

[2]. Ma WD, et al. Chimaphilin induces apoptosis in human breast cancer MCF-7 cells through a ROS-mediated mitochondrial pathway. *Food Chem Toxicol.* 2014 Aug;70:1-8.

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

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