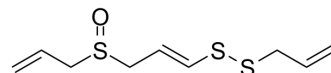


Ajoene

Cat. No.:	HY-106784
CAS No.:	92285-01-3
Molecular Formula:	C ₉ H ₁₄ OS ₃
Molecular Weight:	234.4
Target:	Fungal; Apoptosis
Pathway:	Anti-infection; Apoptosis
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	Ajoene, a garlic-derived compound, is an antithrombotic and antifungal agent. Ajoene inhibits proliferation and induces apoptosis of human leukaemia CD34-negative cells including HL-60, U937, HEL and OCIM-I. Anticancer activities ^{[1][2]} .
In Vitro	Ajoene shows cytotoxicity with IC ₅₀ s in the 7-41 uM range for B16/BL6, HT-29, A549, MDA-MB231, PANC-1, and SKBR-3 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ajoene (25 µg/g body weight of Ajoene in 100 mL Intralipid; i.p.; every other day from the day of inoculation up to day 28) inhibits both primary tumor growth ^[1] . Ajoene (25, 15 or 5 µg/g body weight of Ajoene in 100 µL Intralipid; i.p; every other day over 4 weeks) inhibits strongly metastasis to lung in the B16/BL6 melanoma tumor model in C57BL/6 mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Taylor P, et al. Ajoene inhibits both primary tumor growth and metastasis of B16/BL6 melanoma cells in C57BL/6 mice. *Cancer Lett.* 2006;239(2):298-304.

[2]. Ahmed N, et al. Ajoene, a garlic-derived natural compound, enhances chemotherapy-induced apoptosis in human myeloid leukaemia CD34-positive resistant cells. *Anticancer Res.* 2001;21(5):3519-3523.

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

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