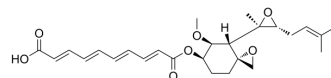


## Fumagillin

Cat. No.:	HY-B0751
CAS No.:	23110-15-8
Molecular Formula:	C <sub>26</sub> H <sub>34</sub> O <sub>7</sub>
Molecular Weight:	458.54
Target:	Parasite; HIV; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (545.21 mM); ultrasonic and warming and heat to 60°C						
	H <sub>2</sub> O : < 0.1 mg/mL (insoluble)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.1808 mL	10.9042 mL	21.8083 mL
				5 mM	0.4362 mL	2.1808 mL	4.3617 mL
10 mM				0.2181 mL	1.0904 mL	2.1808 mL	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.45 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.45 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.54 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Fumagillin(NSC9168) is an antimicrobial compound first isolated in 1949 from the fungus <i>Aspergillus fumigatus</i> . Fumagillin can inhibit HIV-1 infection through the inhibition of HIV-1 viral protein R (Vpr) activity.	
IC <sub>50</sub> & Target	HIV-1	Amoebae
In Vitro	Fumagillin is an active amoebicide and anti-infective isolated from the fungus <i>Aspergillus fumigatus</i> . Fumagillin does exhibit some side effects that have deterred its acceptance as a viable treatment, but the current body of research on the synthesis of novel analogs of this molecule shows an exciting and promising revival of this drug as both an anti-infective and	

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antiangiogenic agent [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Lefkove, B., B. Govindarajan, and J.L. Arbiser, Fumagillin: an anti-infective as a parent molecule for novel angiogenesis inhibitors. *Expert Rev Anti Infect Ther*, 2007. 5(4): p. 573-9.

[2]. Watanabe N, et al. Fumagillin suppresses HIV-1 infection of macrophages through the inhibition of Vpr activity. *FEBS Lett*. 2006 May 15;580(11):2598-602.

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

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