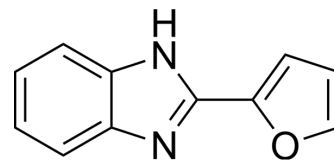


Fuberidazole

Cat. No.:	HY-B1843		
CAS No.:	3878-19-1		
Molecular Formula:	C ₁₁ H ₈ N ₂ O		
Molecular Weight:	184.19		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (678.65 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.4292 mL	27.1459 mL	54.2918 mL
		5 mM	1.0858 mL	5.4292 mL	10.8584 mL
10 mM		0.5429 mL	2.7146 mL	5.4292 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 12.5 mg/mL (67.86 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Fuberidazole (BAY 33172; Furidazole) is a fungicide. Fuberidazole shows a synergistic effect with cucurbituril (CB) macromolecules, such as CB7 and CB8. Studies have shown that, CB8 induces pK _a shifts on Fuberidazole. Fuberidazole significantly inhibits the growth of <i>B. cinerea</i> ^[1] .
IC ₅₀ & Target	<i>B. cinerea</i> ^[1]
In Vitro	Fuberidazole (FBZ) (10 μM) shows pK _a shifts of 1.4 units in the present of CB8 (100 μM) ^[1] . Fuberidazole (10-200 μM; 72 h) exhibits an increasing growth inhibition rate on <i>B. cinerea</i> . And the CB7/CB8-bound Fuberidazole inhibits the growth of <i>B. cinerea</i> at least three times than Fuberidazole alone ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Saleh N, et al. Enhancement of in vitro fungicidal activity of fuberidazole to Botrytis cinerea by cucurbiturils. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 79: 301-309.

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

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