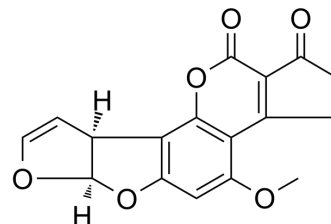


Aflatoxin B1

Cat. No.:	HY-N6615
CAS No.:	1162-65-8
Molecular Formula:	C ₁₇ H ₁₂ O ₆
Molecular Weight:	312.27
Target:	Bacterial; Endogenous Metabolite
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMF : 33.33 mg/mL (106.73 mM; Need ultrasonic)					
	DMSO : 30 mg/mL (96.07 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.2024 mL	16.0118 mL	32.0236 mL
5 mM			0.6405 mL	3.2024 mL	6.4047 mL	
	10 mM		0.3202 mL	1.6012 mL	3.2024 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: 3 mg/mL (9.61 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Aflatoxin B1 (AFB1) is a Class 1A carcinogen, which is a secondary metabolite of <i>Aspergillus flavus</i> and <i>A. parasiticus</i> . Aflatoxin B1 (AFB1) mainly induces the transversion of G->T in the third position of codon 249 of the p53 tumor suppressor gene, resulting in mutation ^{[1][2]} .
IC₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Gizachew D, et al. Aflatoxin B1 (AFB1) production by *Aspergillus flavus* and *Aspergillus parasiticus* on ground Nyjer seeds: The effect of water activity and temperature. *Int J Food Microbiol.* 2019 May 2;296:8-13.

[2]. Aguilar F, et al. Aflatoxin B1 induces the transversion of G-->T in codon 249 of the p53 tumor suppressor gene in human hepatocytes. Proc Natl Acad Sci U S A. 1993 Sep 15;90(18):8586-90.

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

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