

## Fumonisin B1

## Chemical Properties

CAS No. : 116355-83-0

Formula: C<sub>34</sub>H<sub>59</sub>NO<sub>15</sub>

Molecular Weight: 721.83

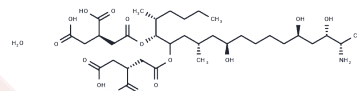
Appearance: no data available

Storage:

store at low temperature, keep away from direct

sunlight, store under nitrogen

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	Fumonisin B1 (Fumonisin-B1) is a mycotoxin produced by <i>Fusarium oxysporum</i> that is widely present in crops, contaminating them and posing a significant food safety hazard. Fumonisin B1 is structurally a sphingosine and sphingomyelin analog, and inhibits the biosynthesis of complex sphingolipids through the inhibition of ceramidic synthases.
Targets(IC50)	Acyltransferase
In vitro	The mRNA expression of P21 was significantly increased after 0.1 µmol/L Fumonisin B1 treatment, and the mRNA expression of P21 was significantly decreased after 10.0 and 100.0 µmol / l Fumonisin B1 treatment[1].

## Solubility Information

Solubility	H <sub>2</sub> O: 16 mg/mL (22.17 mM), Sonication is recommended. Methanol: 5 mg/mL (6.93 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3854 mL	6.9268 mL	13.8537 mL
5 mM	0.2771 mL	1.3854 mL	2.7707 mL
10 mM	0.1385 mL	0.6927 mL	1.3854 mL
50 mM	0.0277 mL	0.1385 mL	0.2771 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Henry MH, et al. The toxicity of fumonisin B<sub>1</sub>, B<sub>2</sub>, and B<sub>3</sub>, individually and in combination, in chicken embryos. Poult Sci. 2001 Apr;80(4):401-7.

Shephard GS, et al. Disruption of sphingolipid metabolism in non-human primates consuming diets of fumonisin-containing Fusarium moniliforme culture material. Toxicon. 1996 May;34(5):527-34.

Wang SK, et al. Effect of fumonisin B<sub>1</sub> on the cell cycle of normal human liver cells. Mol Med Rep. 2013 Jun;7(6):1970-6.

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