



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Fumonisin B1

Ceramide synthase inhibitor  
Catalog No. SIH-234



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

Fumonisin B1

### Description

Ceramide synthase inhibitor

### Purity

>98%

### CAS No.

116355-83-0

### Molecular Formula

C<sub>11</sub>H<sub>19</sub>N<sub>2</sub>O<sub>11</sub>

### Molecular Weight

721.83

## Properties

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### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inducer

### Solubility

Soluble to 10 mM in DMSO

### Source

Synthetic

### Appearance

Beige Solid

### SMILES

CCCCC(C)C(C(C(C)CC(CCCCC(C(C(C)N)O)O)O)OC(=O)CC(CC(=O)O)C(=O)O)OC(=O)CC(CC(=O)O)C(=O)O

### InChI

InChI=1S/C34H59NO15/c1-5-6-9-20(3)32(50-31(44)17-23(34(47)48)15-29(41)42)27(49-30(43)16-22(33(45)46)14-28(39)40)13-19(2)12-24(3

6)10-7-8-11-25(37)18-26(38)21(4)35/h19-27,32,36-38H,5-18,35H2,1-4H3,(H,3

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### InChIKey

UVBUBMSSQKOIBE-UHFFFAOYSA-N

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### Safety Phrases

Classification: Harmful. May be harmful if inhaled, swallowed or absorbed through skin.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Risk Phrases:

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed

R60- May impair fertility

R61- May cause harm to the unborn child

Hazard Phrases:

H351

Precautionary Phrases:

P281

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### Cite This Product

Fumonisin B1 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-234)

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## Biological Description

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### Alternative Names

2,2'-((19-Amino-11,16,18-trihydroxy-5,9-dimethyl-6,7-icosanediyl)bis[oxy(2-oxo-2,1-ethanediyl)])disuccinic acid

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### Research Areas

Cancer, Apoptosis

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### PubChem ID

3431

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### Scientific Background

Fumonisin B1 is the most prevalent member of a family of toxins. It is hepatotoxic and nephrotoxic in all animal species. It occupies the space and electrostatic interactions of both sphinganine and fatty acyl-CoA (1). Due to this mechanism of action, it has toxic effects in humans such as neural tube defects (2), esophageal cancer, acute mycotoxicosis, and various other carcinogenic effects. Another effect of exposure to FB1 is apoptosis (2).

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### References

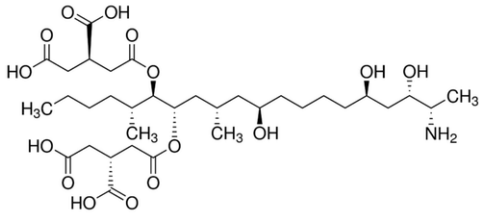
1. European commission (2007). Fumonisin B1. Opinion of the scientific committee on food on Fusarium toxins (27).
2. Stockmann-Juvalla H., and Savolainen K. (2008) Human and Exp. Toxicology. 27: 799-809.

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## Product Images

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Chemical structure of Fumonisin B1 (SIH-234), a Blocks sphingolipid biosynthesis.  
CAS #: 116355-83-0. Molecular Formula: C<sub>34</sub>H<sub>59</sub>NO<sub>15</sub>. Molecular Weight: 721.83 g/mol.



## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.