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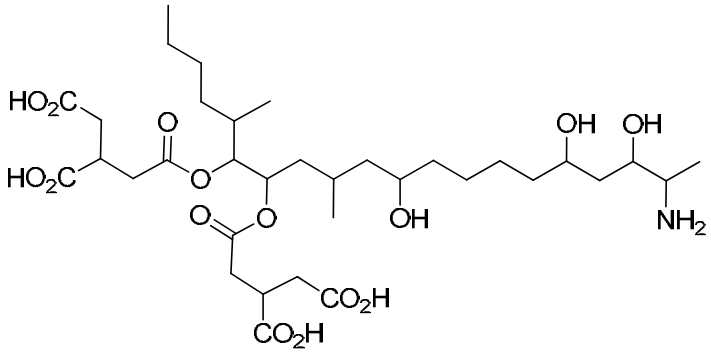
PRODUCT DATA SHEET

Fumonisin B1

Code: **BIA-F1257**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : **Macrofusin**

Specifications

CAS #	:	**116355-83-0**
Molecular Formula	:	**$C_{34}H_{59}NO_{15}$**
Molecular Weight	:	**721.8**
Source	:	***Fusarium moniliforme***
Appearance	:	**Light tan powder**
Purity	:	**> 99% by HPLC**
Storage	:	**- 20°C**
Solubility	:	**Soluble in water, ethanol, methanol, DMF or DMSO.**

Application Notes

Fumonisin B1 is a major analogue of a family of a potent mycotoxins produced by various *Fusarium* species associated with animal toxicity worldwide. *In vitro*, fumonisin B1 has been demonstrated to inhibit sphingosine N-acyl-transferase (ceramide synthase) and block the growth of axons.

References

1. Structure elucidation of the fumonisins, mycotoxins from *Fusarium moniliforme*. Bezuidenhout S. C. et al. J. Chem. Soc. Chem. Commun. 1988, 743.
2. Inhibition of sphingolipid biosynthesis by fumonisins. Implications for diseases associated with *Fusarium moniliforme*. Wang E. et al. J. Biol. Chem. 1991, 266, 14486.
3. Inhibition of sphingolipid synthesis affects axonal outgrowth in cultured hippocampal neurons. Harel R. & Futerman A. H. J. Biol. Chem. 1993, 268, 14476.
4. Fumonisin B1 inhibits sphingosine (sphinganine) N-acyltransferase and *de novo* sphingolipid biosynthesis in cultured neurons in situ. Merrill A. H. et al. J. Biol. Chem. 1993, 268, 27299.

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