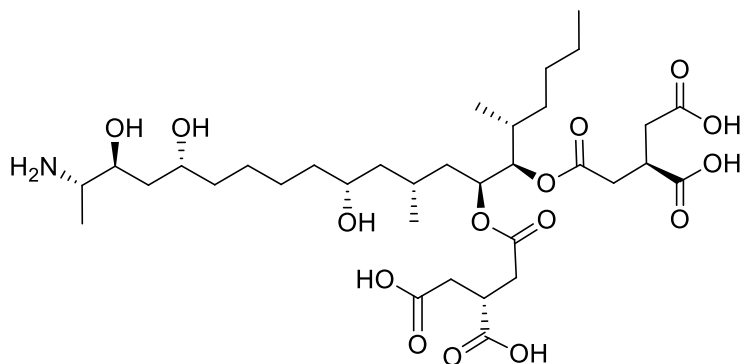


## Fumonisin B1

Code No.: **BIA-F1257**

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



Synonyms : Macrofusin

## Specifications

CAS #	: 116355-83-0
Molecular Formula	: C <sub>34</sub> H <sub>59</sub> NO <sub>15</sub>
Molecular Weight	: 721.8
Source	: <i>Fusarium moniliforme</i>
Appearance	: Light tan powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

## Application Notes

Fumonisin B1 is a major analogue of a family of potent mycotoxins produced by various *Fusarium* species, associated with animal toxicity worldwide. In vitro, fumonisin B1 inhibits sphingosine N-acyl-transferase (ceramide synthase) and blocks 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.