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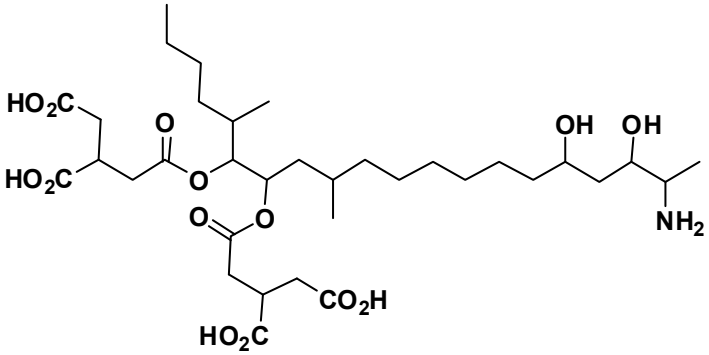
fine chemicals

PRODUCT DATA SHEET

Fumonisin B2

Code: **BIA-F1258**

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



Synonyms : **-**

Specifications

CAS #	:	**116355-84-1**
Molecular Formula	:	**$C_{34}H_{59}NO_{14}$**
Molecular Weight	:	**705.8**
Source	:	***Fusarium moniliforme***
Appearance	:	**Off white powder**
Purity	:	**> 98% by TLC**
Storage	:	**-20°C**
Solubility	:	**Soluble in water, ethanol, methanol, DMF or DMSO.**

Application Notes

Fumonisin B2 is a minor analogue of a family of a potent mycotoxins produced by various *Fusarium* species associated with animal toxicity, worldwide. To date much of the research on the pharmacology of the fumonisins has focused on fumonisin B1. It is generally accepted that fumonisin B2 acts on ceramide biosynthesis, however, the pharmacology of the minor analogues is less well explored.

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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