

Product Name:	Fumonisin B2
Product Number:	F031
CAS Number:	116355-84-1
Molecular Formula:	$C_{34}H_{59}NO_{14}$
Molecular Weight:	705.8
Appearance:	White to off white powder
Storage Conditions:	-20°C
Description:	<p>Fumonisin B2 is a minor analogue of a family of potent mycotoxins produced by various <i>Fusarium</i> 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.</p> <p>Fumonisin B2 is soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</p>
References:	<p>Structure elucidation of the fumonisins, mycotoxins from <i>Fusarium moniliforme</i>. Bezuidenhout S. C. et al. J. Chem. Soc. Chem. Commun. 1988, 743.</p> <p>Inhibition of sphingolipid biosynthesis by fumonisins. Implications for diseases associated with <i>Fusarium moniliforme</i>. Wang E. et al. J. Biol. Chem. 1991, 266, 14486.</p> <p>Inhibition of sphingolipid synthesis affects axonal outgrowth in cultured hippocampal neurons. Harel R. & Futerman A. H. J. Biol. Chem. 1993, 268, 14476.</p> <p>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.</p>