Product Data Sheet

Product Name: Hydrolyzed Fumonisin B1
Cat. No.: GC36270

Chemical Properties

Cas. No.	145040-09-1		
SMILES	C[C@H](N)[C@@H](O)C[C@H](O)CCCC[C@@H](O)C[C@H](C)C[C@H](O)[C@H](O)[C@H](C)CCCC		
Formula	$C_{22}H_{47}NO_5$	M.Wt	405.61
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Hydrolyzed Fumonisin B1		

Background

Hydrolyzed Fumonisin B1 (Aminopentol) is the backbone and main hydrolysis product of the mycotoxin fumonisin B1 (FB1), can weakly inhibit ceramide synthase[1].

[1]. Collins TF, et al. Effects of aminopentol on in utero development in rats. Food Chem Toxicol. 2006 Feb;44(2):161-9. [2]. Humpf HU, et al. Acylation of naturally occurring and synthetic 1-deoxysphinganines by ceramide synthase. Formation of N-palmitoyl-aminopentol produces a toxic metabolite of hydrolyzed fumonisin, AP1, and a new category of ceramide synthase inhibitor. J Biol Chem. 1998 Jul 24;273(30):19060-4. [3]. Schmelz EM, et al. Induction of apoptosis by fumonisin B1 in HT29 cells is mediated by the accumulation of endogenous free sphingoid bases. Toxicol Appl Pharmacol. 1998 Feb;148(2):252-60.

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