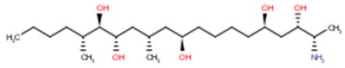
Data Sheet (Cat.No.T13729)

TargetMol
A DRUG SCREENING EXPERT

Hydrolyzed Fumonisin B1

Chemical Properties



CAS No.:	145040-09-1
Formula:	C22H47NO5
Molecular Weight:	405.61
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Hydrolyzed Fumonisin B1 is the backbone and the main hydrolysis product of the mycotoxin fumonisin B1 (FB1), can weakly inhibit ceramide synthase.
Targets(IC_{50})	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.465 mL	12.327 mL	24.654 mL
5 mM	0.493 mL	2.465 mL	4.931 mL
10 mM	0.247 mL	1.233 mL	2.465 mL
50 mM	0.049 mL	0.247 mL	0.493 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481