Fumonisin B_1

Ceramide synthase inhibitor

Fumonisin B1 (FB1) is a mycotoxin produced by *Fusarium moniliforme* . FB1 inhibits sphingosine N-acyl-transferase (ceramide synthase)(IC_{50} = 0.1μM) and *de novo* sphingolipid biosynthesis (IC_{50}=0.7μM for sphingomyelin labeling by [3H]sphinganine, cultured cerebellar neurons). FB1 inhibits growth of axons in cultured hippocampal neurons by blocking glycosphingolipid synthesis. In CV-1 cells, FB1 induces DNA damage (5μM) and apoptosis (25μM). FB1 also activates Akt (PKB), which leads to increased survival, inhibition of GSK-3β activity, and post-translational stabilization of cyclin D1.

Citations: 16 View Online »

Ordering Information

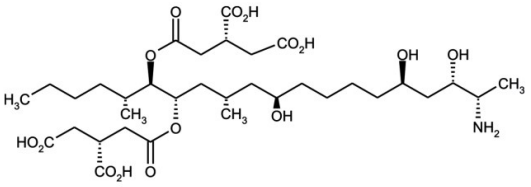
Order Online »

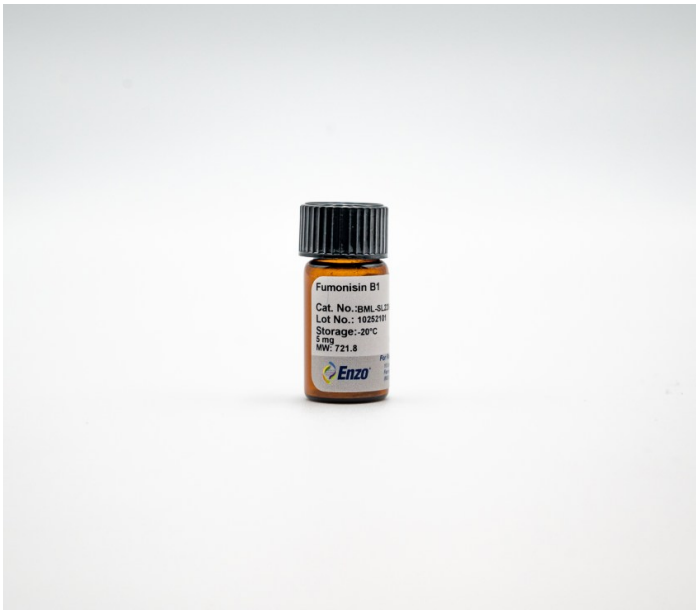
BML-SL220-0001	1mg
BML-SL220-0005	5mg

Manuals, SDS & CofA

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- Highly pure sphingosine n-acyl transferase inhibitor
- Used in a variety of reseach fields including cancer, food science, and neuroscience


O
CO2H
CO2H
O
OH
OH
CH3
H3C
CH3
CH3
OH
NH2
HO2C
O
CO2H
O


Fumonisin B1
Cat. No.:BML-SL3
Lot No.: 10252191
Storage:-20°C
5 mg
MW: 721.8
Enzo

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored, as supplied, at -20°C. Stock solutions are stable for up to 3 months at -20°C.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	FB1
Appearance	White to off-white solid.
CAS	116355-83-0
Couple Target	Akt, GSK
Couple Type	Activator, Inhibitor
Formula	$C_{34}H_{59}NO_{15}$
Identity	Identity determined by NMR.
MI	**14:** 4289
MW	721.8
Purity	≥98% (HPLC, TLC)
Solubility	Soluble in water (25mg/ml).
Source	Isolated from *Fusarium moniliforme*.

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