Fumonisin B₁

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-3 β activity, and post-translational stabilization of cyclin D1.

Citations: 16

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Ordering Information

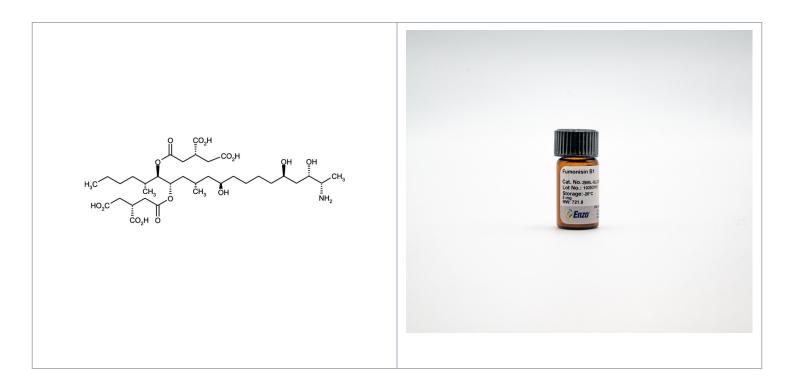
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BML-SL220-0001	1mg
BML-SL220-0005	5mg

Manuals, SDS & CofA

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



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 C₃₄H₅₉NO₁₅

Identity Identity determined by NMR.

MI 14: 4289

MW 721.8

Purity ≥98% (HPLC, TLC)

Soluble in water (25mg/ml).

Source Isolated from *Fusarium moniliforme*.