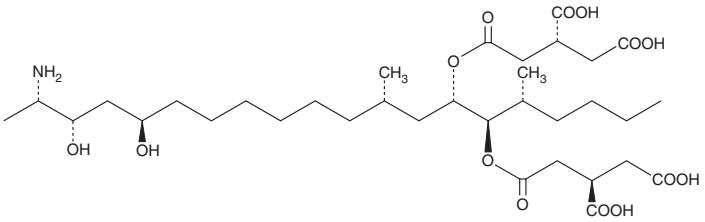
# PRODUCT INFORMATION

## Fumonisin $B_2$ (solution)

*Item No. 46797*

**CAS Registry No.:** 116355-84-1
**Formal Name:** (2R,2′R)-1,2,3-propanetricarboxylic acid, 1,1′-[(1S,2R)-1-[(2S,9R,11S,12S)-12-amino-9,11-dihydroxy-2-methyltridecyl]-2-[(1R)-1-methylpentyl]-1,2-ethanediyl] ester
**Synonym:** $FB_2$
**MF:** $C_{34}H_{59}NO_{14}$
**FW:** 705.8
**Purity:** ≥95%
**Supplied as:** A 1 mM solution in DMSO
**Storage:** -20°C
**Stability:** ≥2 years




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Fumonisin $B_2$ (solution) is supplied as a solution in DMSO. To change the solvent, simply evaporate the DMSO under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as acetonitrile and methanol can be used. Fumonisin $B_2$ (solution) is soluble (≥10 mg/ml) in acetonitrile and methanol.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of fumonisin $B_2$ (solution) is needed, it can be prepared by evaporating the DMSO and directly dissolving the neat oil in aqueous buffers. Fumonisin $B_2$ (solution) is soluble (≥10 mg/ml) in PBS, pH 7.2. We do not recommend storing the aqueous solution for more than one day,

### Description

Fumonisin $B_2$ ($FB_2$) is a mycotoxin that has been found in *F. moniliforme*.[1] It is cytotoxic against a panel of seven rat hepatoma cell lines ($IC_{50}$s = 3-50 µg/ml), as well as MDCK cells ($IC_{50}$ = 2 µg/ml).[2] $FB_2$ (125-1,000 µM) is also cytotoxic to primary rat hepatocytes and induces hepatocyte nodule formation, a marker of cancer initiation, in rats when administered at a dose of 1,000 mg/kg for 21 days.[3] $FB_2$ has been detected in corn and corn-based foods and livestock feeds.[4]

### References


1. Gelderblom, W.C.A., Jaskiewicz, K., Marasas, W.F.O., *et al.* Fumonisins-novel mycotoxins with cancer-promoting activity produced by *Fusarium moniliforme*. *Appl. Environ. Microbiol.* **54(7)**, 1806-1811 (1988).
2. Shier, W.T., Abbas, H.K., and Mirocha, C.J. Toxicity of the mycotoxins fumonisins $B_1$ and $B_2$ and Alternaria alternata f. sp. *lycopersici* toxin (AAL) in cultured mammalian cells. *Mycopathologia* **116(2)**, 97-104 (1991).
3. Gelderblom, W.C.A., Cawood, M.E., Snyman, S.D., *et al.* Structure-activity relationships of fumonisins in short-term carcinogenesis and cytotoxicity assays. *Food Chem. Toxicol.* **31(6)**, 407-414 (1993).
4. Bullerman, L.B. Occurrence of *Fusarium* and fumonisins on food grains and in foods. Fumonisins in food 27-38 1st edition, *Springer* (1996).



**WARNING**
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

**WARRANTY AND LIMITATION OF REMEDY**
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