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Produktinformation

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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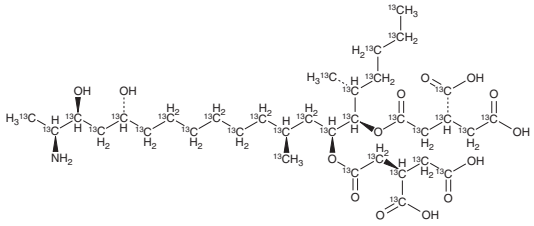
PRODUCT INFORMATION

Fumonisin B_2-$^{13}C_{34}$

Item No. 31273

CAS Registry No.: 1217481-36-1
Formal Name: (2R,2'R)-2,2'-((((5R,6R,7S,9S,16R,18S,19S)-19-amino-16,18-dihydroxy-5,9-di(methyl-^{13}C)icosane-6,7-diyl-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20-$^{13}C_{20}$)*bis*(oxy))*bis*(2-oxoethane-2,1-diyl-1,2-$^{13}C_2$)) disuccinic-$^{13}C_4$ acid
Synonym: FB_2
MF: $[^{13}C]_{34}H_{59}NO_{14}$
FW: 739.6
Purity: ≥98%
Supplied as: A 1:1 solution in acetonitrile:water
Storage: -20°C
Stability: ≥1 year



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

Description

FB_2-$^{13}C_{34}$ is intended for use as an internal standard for the quantification of FB_2 (Item No. 13227) by GC- or LC-MS. 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*. Jackson, L.S., DeVries, J.W., Bullerman, L.B., editors, 1st edition, *Springer* (1996).

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