

Product Data Sheet

Product Name: Aflatoxin B2-¹³C₁₇

Cat. No.: GC46811

Chemical Properties

Cas. No. 1217470-98-8

SMILES O=[13C]1[13C]2=[13C]([13CH2][13CH2][13C]2=O)[13C]3=[13C]([13C]([13C@@]([13CH2][13CH2]O4)([H])[13C@@]4([H])O5)=[13C]5[13CH]=[13C]3O[13CH3])O1

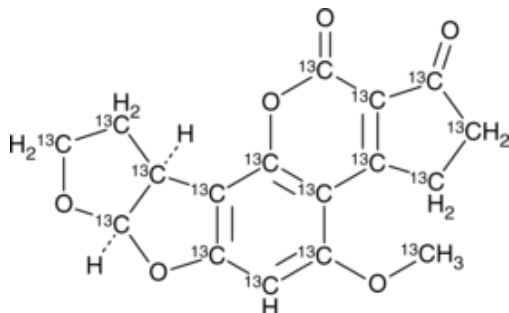
Formula [13C]17H14O6 M.Wt 331.2

Solubility Acetonitrile: soluble Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Aflatoxin B₂-¹³C₁₇ (AFB₂-¹³C₁₇) is intended for use as an internal standard for the quantification of AFB₂ by GC- or LC-MS. AFB₂ is a mycotoxin that has been found in *A. terricola*.¹ It induces hepatic autophagy and apoptosis in broiler chickens when administered at doses of 0.2, 0.4, and 0.8 mg/kg.² AFB₂ (0.5 and 1 mg/animal) also induces parenchymal cell hyperplasia in rats.³

1. Moubasher, A.H., el-Kady, I.A., and Shoriet, A. Toxigenic Aspergilli isolated from different sources in Egypt Ann. Nutr. Aliment. 31(4-6)607-615(1977) 2. Chen, B., Li, D., Li, M., et al. Induction of mitochondria-mediated apoptosis and PI3K/Akt/mTOR-mediated autophagy by aflatoxin B₂ in hepatocytes of broilers Oncotarget 7(51)84989-84998(2016) 3. Wogan, G.N., Edwards, G.S., and

Caution: Product has not been fully validated for medical applications. For research use only.

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Newberne, P.M. Structure-activity relationships in toxicity and carcinogenicity of aflatoxins and analogs *Cancer Res.* 31(12)1936-1942(1971)

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