

Product Data Sheet

Product Name: Aflatoxin M1

Cat. No.: GC42745

Chemical Properties

Cas. No. 6795-23-9

SMILES O=C1C2=C(CCC2=O)C3=C(C(C(C=CO4)(O)C4O5)=C5C=C3OC)O1

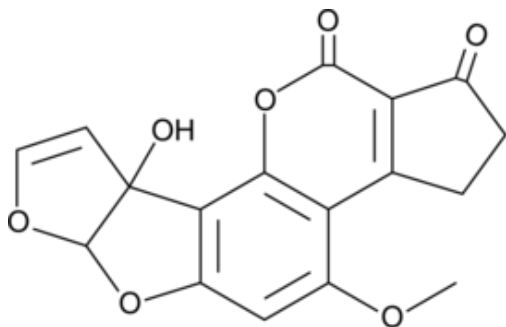
Formula $C_{17}H_{12}O_7$ M.Wt 328.3

Solubility Acetonitrile:Methanol (1:1): 1 mg/ml Storage Store at -20°C

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

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

Structure



Background

Aflatoxin M1 is a major metabolite of Aflatoxin B1. Aflatoxin M1 is an orally active mycotoxin produced by *Aspergillus flavus* and *Aspergillus parasiticus*. The level of toxicity associated with Aflatoxin is Aflatoxin B1 > Aflatoxin M1 > Aflatoxin G1 > Aflatoxin B2 > Aflatoxin M2 > Aflatoxin G2^{[1][2][3]}.

References:

- [1]. Kumar P, et al. Aflatoxins: A Global Concern for Food Safety, Human Health and Their Management. *Front Microbiol.* 2017 Jan 17;7:2170.
- [2]. Zhang J, et al. Aflatoxin B1 and aflatoxin M1 induced cytotoxicity and DNA damage in differentiated and undifferentiated Caco-2 cells. *Food Chem Toxicol.* 2015 Sep;83:54-60.
- [3]. Li H, et al. The Toxic Effects of Aflatoxin B1 and Aflatoxin M1 on Kidney through Regulating L-

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

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Proline and Downstream Apoptosis. Biomed Res Int. 2018 Aug 12;2018:9074861.

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