

Product Data Sheet

Product Name: Aflatoxin B2

Cat. No.: GC41359

Chemical Properties

Cas. No. 7220-81-7

SMILES O=C1C2=C(CCC2=O)C3=C(C([C@](CCO4)([H])[C@]4([H])O5)=C5C=C3OC)O1

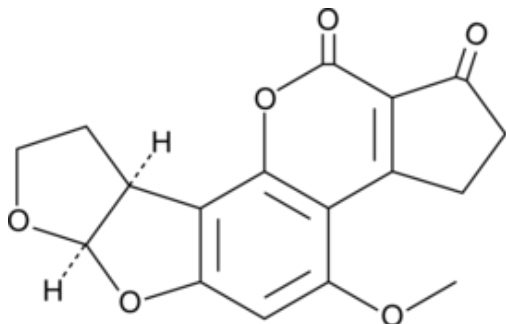
Formula C₁₇H₁₄O₆ M.Wt 314.3

Solubility DMF: 20 mg/ml, DMF:PBS(pH 7.2) Storage Store at -20°C
(1:1): 0.5 mg/ml, DMSO: 12 mg/ml

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

Aflatoxins are naturally occurring mycotoxins produced by various species of the mold *Aspergillus*, which can be found in legumes, corn, soybeans, rice, milk, and cheese. They are highly carcinogenic substances that are metabolized by the liver to a reactive epoxide intermediate, which produces adducts that modify DNA. Aflatoxin B1 induces transversion of G to T at codon 249 of the p53 tumor suppressor gene. This transversion is common in hepatocellular carcinoma patients living in regions with high levels of aflatoxin contamination. Aflatoxin B2 is the dihydro derivative of aflatoxin B1, a naturally occurring mycotoxin and food contaminant that is a likely pathogen that causes hepatocellular carcinoma.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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