

Aflatoxin B₁, Mycotoxin

Catalog	Unit
TBI3504-1MG	1 mg
TBI3504-5MG	5 mg

Product Details

Formal Name: (6aR,9aS)-4-Methoxy-2,3-dihydrocyclopenta[c]furo[3',2':4,5]furo[2,3-h]chromene-1,11(6aH,9aH)-dione

Molecular Formula: C₁₇H₁₂O₆

Formula Weight: 312.3

CAS Number: 1162-65-8

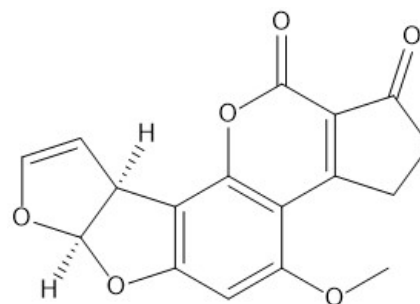
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 30 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Mycotoxin

Functions

A highly toxic, carcinogenic mycotoxin produced by *Aspergillus parasiticus* and *Aspergillus flavus*. In the liver Aflatoxin B₁ is converted to an epoxide (aflatoxin B₁-8,9-epoxide) which is highly reactive and forms conjugates with DNA, RNA, thiols and proteins. Aflatoxin B₁ reactive metabolites drive oxidative stress, inflammation and apoptosis.

Warning: TOXIC. Avoid exposure by all routes.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.