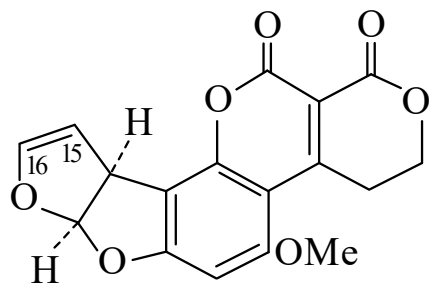
>>**Entry Name: Aflatoxin G_1**
Synonym(s): Aflatoxin G



Absolute conf guration

CAS Registry Number: 1165-39-5

Molecular Formula: $C_{17}H_{12}O_7$
Molecular Weight: 328.278
Accurate Mass: 328.058305
Percentage Composition: C 62.20%; H 3.68%; O 34.12%
Biological Source: Isol. from *Aspergillus flavus* and *Aspergillus parasiticus*
Use/Importance: Mycotoxin
Physical Description: Needles (MeOH) exhibiting green fluor.
Melting Point: Mp 257-259° (247-250°)
Optical Rotation: $[\alpha]_D^{23}$ –556 (c, 0.1 in $CHCl_3$)
Solubility: BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. hexane
UV: [neutral] λ_{max} 235 (ε 21200); 262 (ε 26300); 358 (ε 14000) (MeOH) (Berdy) [neutral] λ_{max} 243 (ε 11500); 257 (ε 9900); 264 (ε 10000); 362 (ε 16100) (EtOH) (Berdy)
Hazard & Toxicity: Human and exp. carcinogen. LD_{50} (dck, orl) 0.79 mg/kg

Aldrich: 85622-3
Sigma: A0138
Supelco: R42-6070

>>**Derivative:** 15,16-Dihydro
Synonym(s): Aflatoxin G_2

CAS Registry Number: 7241-98-7

Molecular Formula: $C_{17}H_{14}O_7$
Molecular Weight: 330.293
Accurate Mass: 330.073955
Percentage Composition: C 61.82%; H 4.27%; O 33.91%
Biological Source: Minor constit. of *Aspergillus flavus*
Use/Importance: Mycotoxin
Physical Description: Cryst. with green fluor. (EtOH)
Melting Point: Mp 237-240°
Optical Rotation: $[\alpha]_D^{23}$ –473 (c, 0.084 in $CHCl_3$)
Solubility: BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. hexane
UV: [neutral] λ_{max} 223 (); 265 (ε 11200); 363 (ε 19300) (EtOH) (Berdy)
Hazard & Toxicity: LD_{50} (dck, orl) 2.45 mg/kg

Aldrich: 85623-1
Sigma: A0263
Supelco: R42-6060

>>**Derivative:** 15,16-Dihydro, 16-hydroxy
Synonym(s): Aflatoxin G_{2a}

CAS Registry Number: 20421-10-7

Molecular Formula: $C_{17}H_{14}O_8$
Molecular Weight: 346.293
Accurate Mass: 346.06887
Percentage Composition: C 58.96%; H 4.07%; O 36.96%
Biological Source: Metab. of *Aspergillus flavus*
Physical Description: Cryst. with green fluor.
Melting Point: Mp 190 dec.°

Sigma: A9151