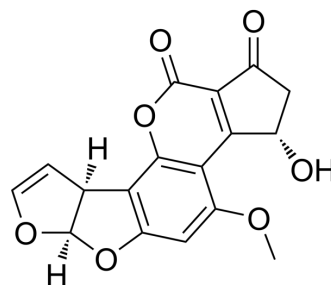


Aflatoxin Q1

Cat. No.:	HY-153394
CAS No.:	52819-96-2
Molecular Formula:	C ₁₇ H ₁₂ O ₇
Molecular Weight:	328.27
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Aflatoxin Q1 is a hydroxy metabolite of Aflatoxin B1 (AFB1), which is a mycotoxin produced by *Aspergillus flavus* (*A. flavus*). Aflatoxin Q1, as well as and aflatoxin B1 8,9-oxide, is the major oxidative products formed from aflatoxin B1 in human liver microsomes, at all substrate concentrations. the 3 alpha-hydroxylation of aflatoxin B1 to aflatoxin Q1 is a potentially significant detoxication pathway^{[1][2]}.

REFERENCES

- [1]. Raney KD, et al. Oxidation of aflatoxins and sterigmatocystin by human liver microsomes: significance of aflatoxin Q1 as a detoxication product of aflatoxin B1. *Chem Res Toxicol.* 1992 Mar-Apr;5(2):202-10.
- [2]. Yamada M, et al. Detoxification of Aflatoxin B1 Contaminated Maize Using Human CYP3A4. *J Microbiol Biotechnol.* 2020 Aug 28;30(8):1207-1213.

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

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