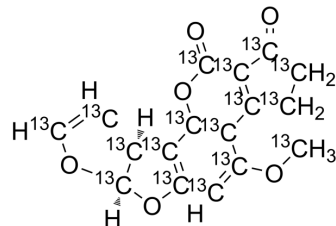


Aflatoxin B1-¹³C₁₇

Cat. No.:	HY-N6615S
CAS No.:	1217449-45-0
Molecular Formula:	¹³ C ₁₇ H ₁₂ O ₆
Molecular Weight:	329.15
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Aflatoxin B1- ¹³ C ₁₇ is ¹³ C- and ¹⁵ N-labeled Aflatoxin B1 (HY-N6615). Aflatoxin B1 (AFB1) is a Class 1A carcinogen, which is a secondary metabolite of <i>Aspergillus flavus</i> and <i>A. parasiticus</i> . Aflatoxin B1 (AFB1) mainly induces the transversion of G→T in the third position of codon 249 of the p53 tumor suppressor gene, resulting in mutation ^{[1][2][3]} .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.

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

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