

Aflatoxin B1-13C,d3

Art. ID TRC-A357463-0.5MG
Unit 0.5 mg

Description

Category: Heterocycles, Isotope Labelled Compounds, Metabolites and Impurities, Pharmaceuticals, Intermediates and Fine Chemicals /// Application Notes: Aflatoxin B1 labelled standard. Aflatoxins B1, B2, G1, G2 as secondary metabolites of fungal species such as *Aspergillus flavus* or *Aspergillus parasiticus* growing on a variety of foods (peanuts, nuts, spices, cereals). Aflatoxins are a group of very carcinogenic mycotoxins with hepatotoxic effects. Aflatoxin is biotransformed to genotoxic intermediates by P450 Phase I enzymes, mainly CYP3A4 via aflatoxin B1 3-hydroxylation. Detoxification depends on Phase II enzymes, such as Glutathione S-Transferase and AFB(1)-aldehyde reductase (AFAR). Aflatoxin B1 is one of the most potent environmental mutagens and carcinogens known. /// References: Cifford, R., et al.: *Nature*, 209, 312 (1966), Wogan, et al.: *Food Cosmet. Toxicol.*, 12, 681 (1974), Sinz, M.W., et al.: *J. Toxicol. Toxin Rev.*, 10, 87 (1991)

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Aflatoxin B1-13C,d3	[1162-65-8]/unl abelled				