

Product Name: Aflatoxin G1

Product Number: A117

CAS Number: 1165-39-5

Molecular Formula: $C_{17}H_{12}O_7$

Molecular Weight: 328.3

Appearance: White powder

Storage Conditions: -20°C

Description: Aflatoxin G1 is the major analogue of the green fluorescent family of bisfuranocoumarin mycotoxins produced by *Aspergillus flavus* and related species. Aflatoxins are one of the most potent mycotoxins known but are in fact 'pre-toxins', requiring metabolic activation to the toxic principle. Aflatoxins are found widely in nature in trace amounts, particularly in grains and nuts. The toxicity of these metabolites was first recognised in the 1950s and their structures elucidated in 1963. Aflatoxins have been extensively reviewed.

Aflatoxin G1 is soluble in ethanol, methanol, DMF and DMSO and has limited water solubility.

References: Structures of aflatoxins B and G1. Asao T. et al. JACS 1965, 87, 882.

Handbook of toxic fungal metabolites. Cole E. J. Academic Press, New York, 1981.

Mutagenic activation of aflatoxin AFB1 by several forms of purified cytochrome P450. Ishii K. et al. Mutat. Res. 1986, 174, 84.