

Aflatoxin G1

Chemical Properties

CAS No.:	1165-39-5
Formula:	C ₁₇ H ₁₂ O ₇
Molecular Weight:	328.27
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Aflatoxin G1 (AFG1), a member of the AF family with cytotoxic and carcinogenic properties, could cause DNA damage in alveolar type II (AT-II) cells and induce lung adenocarcinoma.
Targets(IC ₅₀)	TNF-α: None NF-κB: None
In vitro	Aflatoxin G1 was removed from liquid cultures by growing and resting cells of <i>Flavobacterium aurantiacum</i> NRRL B-184. In inoculated culture media containing toxin levels of 7.5 p.p.m. and above, there was a protracted growth lag which was subsequently overcome; toxin removal then occurred, concomitant with growth. Only a few cells demonstrated aberrant morphological forms when cultured in the presence of Aflatoxin G1. A comparison of the effects of Aflatoxin G1 with B1 on growth and morphology showed that B1 was distinctly more toxic[1]

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.046 mL	15.231 mL	30.463 mL
5 mM	0.609 mL	3.046 mL	6.093 mL
10 mM	0.305 mL	1.523 mL	3.046 mL
50 mM	0.061 mL	0.305 mL	0.609 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Aflatoxin G1 uptake by cells of *Flavobacterium aurantiacum*. Canadian Journal of Microbiology, 1967, 13(6):629.

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