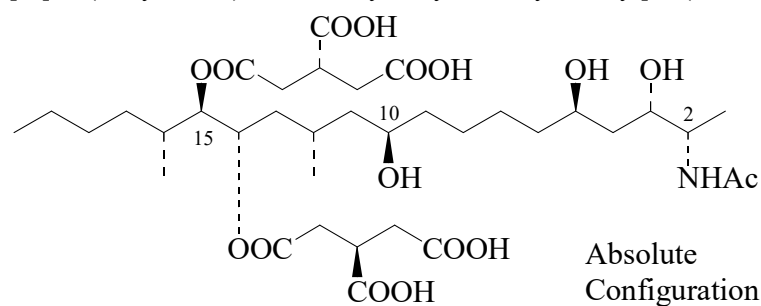




>>Entry Name: Fumonisin A₁

Synonym(s): 1,2,3-Propanetricarboxylic acid 1,1'-[1-[12-(acetylamino)-4,9,11-trihydroxy-2-methyltridecyl]-2-(1-methylpentyl)-1,2-ethanediyl] ester, 9Cl



CAS Registry Number: 117415-48-2

Related CAS Registry Numbers(s): 126254-17-9

Molecular Formula: C₃₆H₆₁NO₁₆

Molecular Weight: 763.875

Accurate Mass: 763.399039

Percentage Composition: C 56.61%; H 8.05%; N 1.83%; O 33.51%

Biological Source: Prod. by *Fusarium moniliforme*

Biological Use/Importance: Mycotoxin

Solubility: BERDY SOL: Sol. MeOH, H₂O; poorly sol. CHCl₃, hexane

UV: [neutral] λ_{max} 0 (end) (ε) (MeOH) (Derep)

>>Derivative: N²-De-Ac

Synonym(s): Fumonisin B₁, Macrofusin

CAS Registry Number: 116355-83-0

Molecular Formula: C₃₄H₅₉NO₁₅

Molecular Weight: 721.838

Accurate Mass: 721.388474

Percentage Composition: C 56.57%; H 8.24%; N 1.94%; O 33.25%

Biological Source: From *Fusarium moniliforme*

Solubility: BERDY SOL: Sol. MeOH, H₂O; poorly sol. CHCl₃, hexane

UV: [neutral] λ_{max} 0 (end) (ε) (MeOH) (Derep)

Sigma: F1147

>>Derivative: 2-De(acetylamino), 2-(3-hydroxy-1-pyridinyl)

Synonym(s): Fumonisin FP₁

CAS Registry Number: 182063-58-7

Molecular Formula: C₃₉H₆₂NO₁₆⁽⁺⁾

Molecular Weight: 800.916

Accurate Mass: 800.406864

Percentage Composition: C 58.49%; H 7.80%; N 1.75%; O 31.96%

Biological Source: Prod. by *Fusarium moniliforme*

Physical Description: Solid

UV: [acid] λ_{max} 288 (ε 1320) (0.1M HCl) [acid] λ_{max} 288 (ε 1320) (HCl) (Berdy) [base] λ_{max} 322 (ε 1170) (NAOH) (Berdy)

>>Derivative: 15-Deacyl, 15-ketone

Synonym(s): Fumonisin AK₁

CAS Registry Number: 170591-49-8

Molecular Formula: C₃₀H₅₃NO₁₁

Molecular Weight: 603.749

Accurate Mass: 603.361864

Percentage Composition: C 59.68%; H 8.85%; N 2.32%; O 29.15%

Biological Source: Prod. by *Fusarium proliferatum*