



>>Derivative: 8'-Methoxy

Synonym(s): Antibiotic F 1839B. F 1839B

CAS Registry Number: 159096-44-3

Molecular Formula: $C_{24}H_{33}NO_6$

Molecular Weight: 431.528

Accurate Mass: 431.230789

Percentage Composition: C 66.80%; H 7.71%; N 3.25%; O 22.25%

Biological Source: From *Stachybotrys* sp. F-1839

Physical Description: Amorph. powder

Solubility: BERDY SOL: Sol. MeOH, DMSO, Py; fairly sol. EtOAc, 2-butanone; poorly sol. H₂O, hexane

UV: [acid] $\lambda_{\max}$ 217 (ϵ 33100); 267 (ϵ 5290); 302 (ϵ 2530) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 218 (ϵ 41300); 271 (ϵ 6230); 308 (ϵ 2910) (base in MeOH) (Derep) [neutral] $\lambda_{\max}$ 218 (ϵ 41281); 271 (ϵ 6203); 308 (ϵ 2910) (MeOH) (Berdy)

>>Derivative: 8'-Methoxy, 8'-epimer

Synonym(s): Antibiotic F 1839C. F 1839C

CAS Registry Number: 159170-51-1

Molecular Formula: $C_{24}H_{33}NO_6$

Molecular Weight: 431.528

Accurate Mass: 431.230789

Percentage Composition: C 66.80%; H 7.71%; N 3.25%; O 22.25%

Biological Source: From *Stachybotrys* sp. F-1839

Physical Description: Amorph. powder

Solubility: BERDY SOL: Sol. MeOH, Py, DMSO; fairly sol. EtOAc, 2-butanone; poorly sol. H₂O, hexane

UV: [acid] $\lambda_{\max}$ 217 (ϵ 33100); 267 (ϵ 5290); 302 (ϵ 2530) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 218 (ϵ 41300); 271 (ϵ 6230); 308 (ϵ 2910) (base in MeOH) (Derep) [neutral] $\lambda_{\max}$ 217 (ϵ 33069); 267 (ϵ 5293); 302 (ϵ 2525) (MeOH) (Berdy)

>>Derivative: 7'-Deoxo, 8'-oxo

Synonym(s): Antibiotic F 1839D. F 1839D

CAS Registry Number: 159096-45-4

Molecular Formula: $C_{23}H_{31}NO_5$

Molecular Weight: 401.502

Accurate Mass: 401.220224

Percentage Composition: C 68.80%; H 7.78%; N 3.49%; O 19.92%

Biological Source: From *Stachybotrys* sp. F-1839

Physical Description: Amorph. powder

Solubility: BERDY SOL: Sol. MeOH, Py, DMSO; fairly sol. EtOAc, 2-butanone; poorly sol. H₂O, hexane

UV: [neutral] $\lambda_{\max}$ 225 (ϵ 31600); 255 (ϵ 10400); 298 (ϵ 4920) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 229 (ϵ 31613); 255 (ϵ 10383); 298 (ϵ 4924) (MeOH) (Berdy)

>>Derivative: 2-Deoxy

Synonym(s): Stachybotrylactam

CAS Registry Number: 163391-76-2

Molecular Formula: $C_{23}H_{31}NO_4$

Molecular Weight: 385.502

Accurate Mass: 385.225309

Percentage Composition: C 71.66%; H 8.10%; N 3.63%; O 16.60%

Biological Source: Prod. by *Stachybotrys chartarum*

Biological Use/Importance: Immunosuppressant

Physical Description: Powder

UV: [neutral] $\lambda_{\max}$ 216 (); 257 (); 298 () (MeCN) [neutral] $\lambda_{\max}$ 216 (); 257 (); 298 () (MeCN) (Berdy)