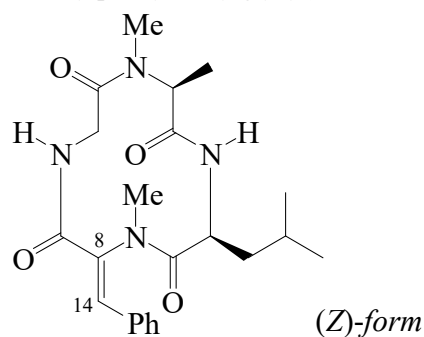




>>Entry Name: Tentoxin

Synonym(s): Cyclic(*N*-methyl-L-alanyl-L-leucyl- α,β -didehydro-*N*-methylphenylalanylglycyl), 9Cl



Molecular Formula: C₂₂H₃₀N₄O₄

Molecular Weight: 414.503

Accurate Mass: 414.226706

Percentage Composition: C 63.75%; H 7.29%; N 13.52%; O 15.44%

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O

UV: [neutral] $\lambda_{\max}$ 285 (ϵ 12200) (H₂O) (Derep) [neutral] $\lambda_{\max}$ 285 (ϵ 12200) (H₂O) (Berdy) [neutral] $\lambda_{\max}$ 282 (ϵ 20700) (EtOH) (Berdy)

>>Variant: (Z)-form

CAS Registry Number: 28540-82-1

Molecular Formula: C₂₂H₃₀N₄O₄

Molecular Weight: 414.503

Accurate Mass: 414.226706

Percentage Composition: C 63.75%; H 7.29%; N 13.52%; O 15.44%

Biological Source: Prod. by *Alternaria tenuis* and *Alternaria alternata*

Use/Importance: Energy transfer inhibitor. Phytotoxin

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 172-175°

Sigma: T8019

>>Derivative: 8 β ,14-Dihydro

Synonym(s): Dihydrotentoxin. Toxin V2

CAS Registry Number: 54987-63-2

Molecular Formula: C₂₂H₃₂N₄O₄

Molecular Weight: 416.519

Accurate Mass: 416.242356

Percentage Composition: C 63.44%; H 7.74%; N 13.45%; O 15.36%

Biological Source: Prod. by *Alternaria alternata* and *Alternaria citri*

Use/Importance: Phytotoxin

Physical Description: Powder

Optical Rotation: [α]_D -102 (MeOH)

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

UV: [neutral] $\lambda_{\max}$ 253 (); 258 (ϵ 322); 265 (); 268 () (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 258 () (H₂O) (Berdy) [neutral] $\lambda_{\max}$ 222 (ϵ 6670) (EtOH) (Berdy)

>>Variant: (E)-form

Synonym(s): Isotentoxin

CAS Registry Number: 65452-16-6

Molecular Formula: C₂₂H₃₀N₄O₄

Molecular Weight: 414.503

Accurate Mass: 414.226706

Percentage Composition: C 63.75%; H 7.29%; N 13.52%; O 15.44%

Biological Source: From *Alternaria mali*

Use/Importance: Effective against *Piricularia oryzae* and bacterial infections in plants

UV: [neutral] $\lambda_{\max}$ 281 (ϵ 11220) (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 281 (ϵ 9700) (H₂O) (Berdy)

References: