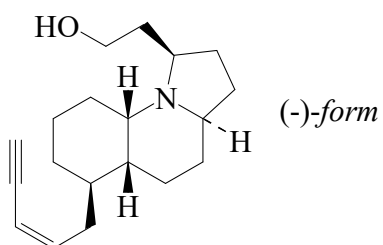




>>Entry Name: Gephyrotoxin

Synonym(s): Histrionicotoxin D. *Dendrobates* Alkaloid 287C



Molecular Formula: C₁₉H₂₉NO

Molecular Weight: 287.444

Accurate Mass: 287.224914

Percentage Composition: C 79.39%; H 10.17%; N 4.87%; O 5.57%

>>Variant: (+)-form

Molecular Formula: C₁₉H₂₉NO

Molecular Weight: 287.444

Accurate Mass: 287.224914

Percentage Composition: C 79.39%; H 10.17%; N 4.87%; O 5.57%

Source/Synthesis: Synthetic

Optical Rotation: [α]_D +50 (c, 1.0 in EtOH)

>>Variant: (–)-form

CAS Registry Number: 55893-12-4

Molecular Formula: C₁₉H₂₉NO

Molecular Weight: 287.444

Accurate Mass: 287.224914

Percentage Composition: C 79.39%; H 10.17%; N 4.87%; O 5.57%

Biological Source: Minor alkaloid from skin extracts of the neotropical poison-frog *Dendrobates histrionicus* (Dendrobatidae)

Use/Importance: Appears to be a weak muscarinic antagonist and acetylcholine antagonist

Melting Point: Mp 231-232 dec.°

Optical Rotation: [α]_D –51.5 (c, 1.0 in EtOH)

Other Data: Abs. config. derived chemically is at variance with the crystallographic determination. Rel. nontoxic

>>Derivative: Dihydro

Synonym(s): Dihydrogephyrotoxin. *Dendrobates* Alkaloid 289B

Molecular Formula: C₁₉H₃₁NO

Molecular Weight: 289.46

Accurate Mass: 289.240564

Percentage Composition: C 78.84%; H 10.79%; N 4.84%; O 5.53%

Biological Source: Minor constit. in *Dendrobates histrionicus* (Dendrobatidae)

Other Data: Terminal double bond present according to pmr spectroscopic data

>>Variant: (±)-form

CAS Registry Number: 75685-48-2

Molecular Formula: C₁₉H₂₉NO

Molecular Weight: 287.444

Accurate Mass: 287.224914

Percentage Composition: C 79.39%; H 10.17%; N 4.87%; O 5.57%

Source/Synthesis: Synthetic

Physical Description: Oil

>>Derivative: Dihydro

CAS Registry Number: 63983-58-4

Source/Synthesis: Synthetic

Physical Description: Oil

References: