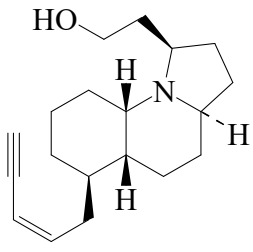
>>**Entry Name: Gephyrotoxin**
Synonym(s): Histrionicotoxin D. *Dendrobates* Alkaloid 287C



(-)-*form*

Molecular Formula: $C_{19}H_{29}NO$
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: $C_{19}H_{29}NO$
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: $[\alpha]_D$ +50 (c, 1.0 in EtOH)

>>**Variant:** (–)-form

CAS Registry Number: 55893-12-4

Molecular Formula: $C_{19}H_{29}NO$
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: $[\alpha]_D$ –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: $C_{19}H_{31}NO$
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: $C_{19}H_{29}NO$
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: