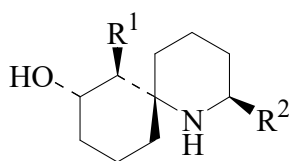




>>Entry Name: Histrionicotoxins



Histrionicotoxin	R ¹	R ²
235A	-CH=CH ₂	-CH ₂ CH=CH ₂
259	-CH=CHC=CH	-CH ₂ CH=CH ₂
283A	-CH=CHC=CH	-CH ₂ CH=CHC=CH
285A	-CH=CHC=CH	-CH ₂ CH ₂ CH=C=CH ₂
285B	-CH=CHCH=CH ₂	-CH ₂ CH=CHC=CH
285C	-CH=CHC=CH	-(CH ₂) ₃ C=CH
285E	-CH=CHC=CH	-CH ₂ CH=CHCH=CH ₂
287A	-CH=CHCH=CH ₂	-CH ₂ CH ₂ CH=C=CH ₂
287B	-CH=CHCH=CH ₂	-CH ₂ CH=CHCH=CH ₂
287D	-CH=CHCH=CH ₂	-(CH ₂) ₃ C=CH
291A	-CH ₂ CH ₂ CH=CH ₂	-(CH ₂) ₃ CH=CH ₂

All ethylene bonds (Z-)

>>Variant: Histrionicotoxin 235A

Synonym(s): HTX-235A. *Dendrobates* Alkaloid 235A

Molecular Formula: C₁₅H₂₅NO

Molecular Weight: 235.369

Accurate Mass: 235.193614

Percentage Composition: C 76.55%; H 10.71%; N 5.95%; O 6.80%

Biological Source: Minor or trace alkaloid from skin extracts of the poison-frogs *Dendrobates auratus*, *Dendrobates granuliferus*, *Dendrobates histrionicus*, *Dendrobates parvulus*, *Dendrobates truncatus* and *Dendrobates trivittatus* (Dendrobatidae)

>>Variant: Histrionicotoxin 259

Synonym(s): HTX-259. *Dendrobates* Alkaloid 259

Molecular Formula: C₁₇H₂₅NO

Molecular Weight: 259.391

Accurate Mass: 259.193614

Percentage Composition: C 78.72%; H 9.71%; N 5.40%; O 6.17%

Biological Source: A major alkaloid of *Dendrobates tinctorius* and *Dendrobates trivittatus*; minor constit. of *Dendrobates auratus*, *Dendrobates azureus*, *Dendrobates granuliferus*, *Dendrobates histrionicus* (several populations), *Dendrobates occultator* and *Dendrobates truncatus* (Dendrobatidae)

>>Variant: Histrionicotoxin 283A

Synonym(s): Histrionicotoxin. HTX. *Dendrobates* Alkaloid 283

CAS Registry Number: 34272-51-0

Molecular Formula: C₁₉H₂₅NO

Molecular Weight: 283.413

Accurate Mass: 283.193614

Percentage Composition: C 80.52%; H 8.89%; N 4.94%; O 5.65%

Biological Source: A major alkaloid from *Dendrobates azureus*, *Dendrobates granuliferus*, *Dendrobates histrionicus* (all populations), *Dendrobates occultator*, *Dendrobates parvulus*, *Dendrobates pictus*, *Dendrobates tinctorius*, *Dendrobates trivittatus* and *Dendrobates truncatus* (Dendrobatidae). Also isol. from skin extracts of the Madagascan frog *Mantella madagascariensis* (Ranidae, subfamily Mantellinae)

Biological Use/Importance: Affects nerve channel membranes

Melting Point: Mp 225-228° (as hydrochloride)

Optical Rotation: [α]_D²⁵ -96.3 (c, 1.0 in EtOH)

Hazard & Toxicity: Rel. nontoxic to mammals