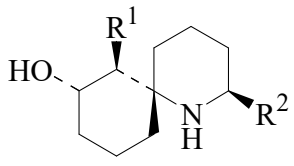
>>**Entry Name: Histrionicotoxins**



Histrionicotoxin	R^1	R^2
235A	-CH=CH_2	-CH_2CH=CH_2
259	-CH=CHC≡CH	-CH_2CH=CH_2
283A	-CH=CHC≡CH	-CH_2CH=CHC≡CH
285A	-CH=CHC≡CH	-CH_2CH_2CH=C=CH_2
285B	-CH=CHCH=CH_2	-CH_2CH=CHC≡CH
285C	-CH=CHC≡CH	-$(CH_2)_3$C≡CH
285E	-CH=CHC≡CH	-CH_2CH=CHCH=CH_2
287A	-CH=CHCH=CH_2	-CH_2CH_2CH=C=CH_2
287B	-CH=CHCH=CH_2	-CH_2CH=CHCH=CH_2
287D	-CH=CHCH=CH_2	-$(CH_2)_3$C≡CH
291A	-CH_2CH_2CH=CH_2	-$(CH_2)_3$CH=CH_2

All ethylene bonds (*Z*-)

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

Molecular Formula: $C_{15}H_{25}NO$
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: $C_{17}H_{25}NO$
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: $C_{19}H_{25}NO$
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: $[\alpha]_D^{25}$ –96.3 (c, 1.0 in EtOH)
Hazard & Toxicity: Rel. nontoxic to mammals

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