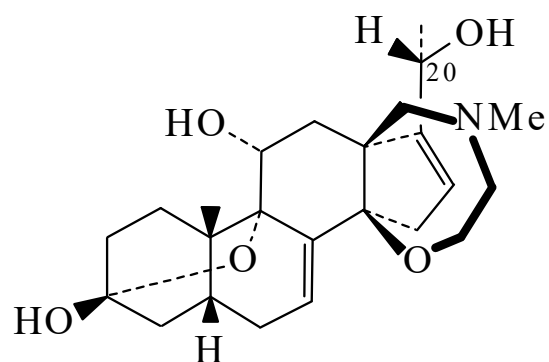




>>Entry Name: Batrachotoxinin A



Absolute
configuration

CAS Registry Number: 19457-37-5

Molecular Formula: $C_{24}H_{35}NO_5$

Molecular Weight: 417.544

Accurate Mass: 417.251524

Percentage Composition: C 69.04%; H 8.45%; N 3.35%; O 19.16%

Biological Source: Toxic principle from skin extracts of Colombian poison-dart frogs *Phyllobates aurotaenia* and *Phyllobates terribilis*

Use/Importance: Depolarizing agent for neurones and muscle cells *via* specific interaction with sodium channels

Physical Description: Noncryst.

Hazard & Toxicity: Very toxic. LD₅₀ (mus, scu) 1 mg/kg. Avoid skin contact

>>Derivative: Carbonate

Melting Point: Mp 222-224°

>>Derivative: O^{20} -4-Bromobenzoyl

Melting Point: Mp 213°

>>Derivative: O^{20} -2,4-Dimethyl-3-pyrrolicarboxylate

Synonym(s): Batrachotoxin

CAS Registry Number: 23509-16-2

Molecular Formula: $C_{31}H_{42}N_2O_6$

Molecular Weight: 538.683

Accurate Mass: 538.304288

Percentage Composition: C 69.12%; H 7.86%; N 5.20%; O 17.82%

Biological Source: Alkaloid from *Phyllobates aurotaenia* and *Phyllobates terribilis*

Use/Importance: Depolarising agent for neurones and muscle cells *via* specific interaction with sodium channels in plasma membranes

Physical Description: Noncryst.

Other Data: Avoid skin contact

Hazard & Toxicity: LD₅₀ (mus, ipr) 0.002 mg/kg. LD₅₀ (mus, scu) 0.002 mg/kg. Very toxic by intraperitoneal and subcutaneous routes

>>Derivative: O^{20} -2,4-Dimethyl-3-pyrrolicarboxylate, O^3 -Me

Synonym(s): 3-*O*-Methylbatrachotoxin

Molecular Formula: $C_{32}H_{44}N_2O_6$

Molecular Weight: 552.709

Accurate Mass: 552.319938

Percentage Composition: C 69.54%; H 8.02%; N 5.07%; O 17.37%

Biological Source: Alkaloid from *Phyllobates terribilis*

Other Data: Probably an artifact