



Molecular Weight: 587.709
Accurate Mass: 587.309434
Percentage Composition: C 65.40%; H 7.72%; N 2.38%; O 24.50%
Biological Source: Alkaloid from the roots of *Aconitum polyschistum* (Ranunculaceae)
Melting Point: Mp 232-234°
Optical Rotation: $[\alpha]_D -15.4$ (CHCl₃)

>>Derivative: *O*¹,*O*⁶,*O*¹⁶,*O*¹⁸-Tetra-Me, *N*-Et, 14-benzoyl, 8-Ac
Synonym(s): Deoxyaconitine

CAS Registry Number: 3175-95-9

Molecular Formula: C₃₄H₄₇NO₁₀
Molecular Weight: 629.746
Accurate Mass: 629.319999
Percentage Composition: C 64.85%; H 7.52%; N 2.22%; O 25.41%
Biological Source: Alkaloid from numerous *Aconitum* spp. (Ranunculaceae); contaminant in crude aconitine
Physical Description: Prisms (Et₂O)
Melting Point: Mp 177-180°
Optical Rotation: $[\alpha]_D^{25} +15.5$ (c, 1.4 in EtOH)

>>Derivative: *O*¹,*O*⁶,*O*¹⁶,*O*¹⁸-Tetra-Me, *N*-Et, 14-(4-methoxybenzoyl), 8-Ac
Synonym(s): Deoxyjesaconitine

CAS Registry Number: 69787-27-5

Molecular Formula: C₃₅H₄₉NO₁₁
Molecular Weight: 659.772
Accurate Mass: 659.330564
Percentage Composition: C 63.72%; H 7.49%; N 2.12%; O 26.67%
Biological Source: Alkaloid from the rhizomes of *Aconitum subcuneatum* (Ranunculaceae)
Physical Description: Needles (Me₂CO)
Melting Point: Mp 174-176°
Optical Rotation: $[\alpha]_D +52$ (c, 0.065 in MeOH)

>>Derivative: *O*¹,*O*⁶,*O*¹⁶,*O*¹⁸,*N*-Penta-Me, 14-benzoyl
Synonym(s): Benzoylhypaconine. Deacetylhypaconitine

CAS Registry Number: 63238-66-4

Molecular Formula: C₃₁H₄₃NO₉
Molecular Weight: 573.682
Accurate Mass: 573.293784
Percentage Composition: C 64.90%; H 7.55%; N 2.44%; O 25.10%
Biological Source: Alkaloid from the roots of *Aconitum carmichaeli* (Ranunculaceae). Also isol. from the processed aconite "Kako-bushi-matsu", produced by autoclaving the crude drug ("bushi") obt. from the roots of some *Aconitum* spp.

>>Derivative: *O*¹,*O*⁶,*O*¹⁶,*O*¹⁸,*N*-Penta-Me, 14-benzoyl, 8-Ac
Synonym(s): Hypaconitine. Deoxymesaconitine. Japaconitine B₁. Japaconitine C. Japaconitine C₁

CAS Registry Number: 6900-87-4

Biological Source: Alkaloid from *Aconitum senanense*, *Aconitum carmichaeli*, *Aconitum koreanum*, *Aconitum bullatifolium* var. *homotrichum*, *Aconitum callianthum*, *Aconitum ibukiense*, *Aconitum tortuosum*, *Aconitum hakusanense* and many other *Aconitum* spp. (Ranunculaceae)
Physical Description: Prisms (MeOH)
Melting Point: Mp 197-198 dec.°
Optical Rotation: $[\alpha]_D^{17} +22.4$ (CHCl₃)

>>Derivative: *O*¹,*O*⁶,*O*¹⁶,*O*¹⁸,*N*-Penta-Me, 14-benzoyl, 8-Ac; hydrobromide

Physical Description: Cryst. + 2.5H₂O (EtOH/Et₂O)
Melting Point: Mp 178-179 dec.°
Optical Rotation: $[\alpha]_D -19$ (H₂O)