



>>Derivative: 1,9-Di-Me ether
Synonym(s): Aristolactam AIII

CAS Registry Number: 53948-08-6

Molecular Formula: $C_{17}H_{13}NO_4$
Molecular Weight: 295.294
Accurate Mass: 295.084459
Percentage Composition: C 69.15%; H 4.44%; N 4.74%; O 21.67%
Biological Source: Alkaloid from the roots of *Aristolochia argentina* (Aristolochiaceae)
Physical Description: Cryst. (AcOH)
Melting Point: Mp 275°

>>Derivative: Tri-Me ether
Synonym(s): Aristolactam BIII

CAS Registry Number: 53948-10-0

Molecular Formula: $C_{18}H_{15}NO_4$
Molecular Weight: 309.321
Accurate Mass: 309.100109
Percentage Composition: C 69.89%; H 4.89%; N 4.53%; O 20.69%
Biological Source: Alkaloid from the roots of *Aristolochia argentina* (Aristolochiaceae)
Physical Description: Cryst. (1-propanol/1-butanol)
Melting Point: Mp 225°

>>Derivative: Tri-Me ether, *N*-β-D-glucopyranosyl

CAS Registry Number: 208774-74-7

Molecular Formula: $C_{24}H_{25}NO_9$
Molecular Weight: 471.463
Accurate Mass: 471.152934
Percentage Composition: C 61.14%; H 5.34%; N 2.97%; O 30.54%
Biological Source: Alkaloid from *Aristolochia constricta*
Physical Description: Yellow needles
Melting Point: Mp 260-269°
Optical Rotation: $[\alpha]_D^{25} -13.5$ (c, 1 in MeOH)

>>Derivative: 1,2-Methylene ether

References:

- Crohare, R. *et al.*, *Phytochemistry*, 1974, **13**, 1957, (*Aristolactams*)
Priestap, H.A., *Phytochemistry*, 1985, **24**, 849, (*pmr, cmr, Aristolactams*)
Estévez, J.C. *et al.*, *Tet. Lett.*, 1989, **30**, 5785, (*synth, Aristolactam BIII*)
De Tomassi, N. *et al.*, *Nat. Prod. Lett.*, 1998, **11**, 263-270, (*Aristolochia constricta alkaloids*)
Cao, S.-G. *et al.*, *Tetrahedron*, 1998, **54**, 2143-2148, (*Goniothalactam*)
Couture, A. *et al.*, *Nat. Prod. Lett.*, 1999, **13**, 33-40, (*Goniothalactam, synth*)