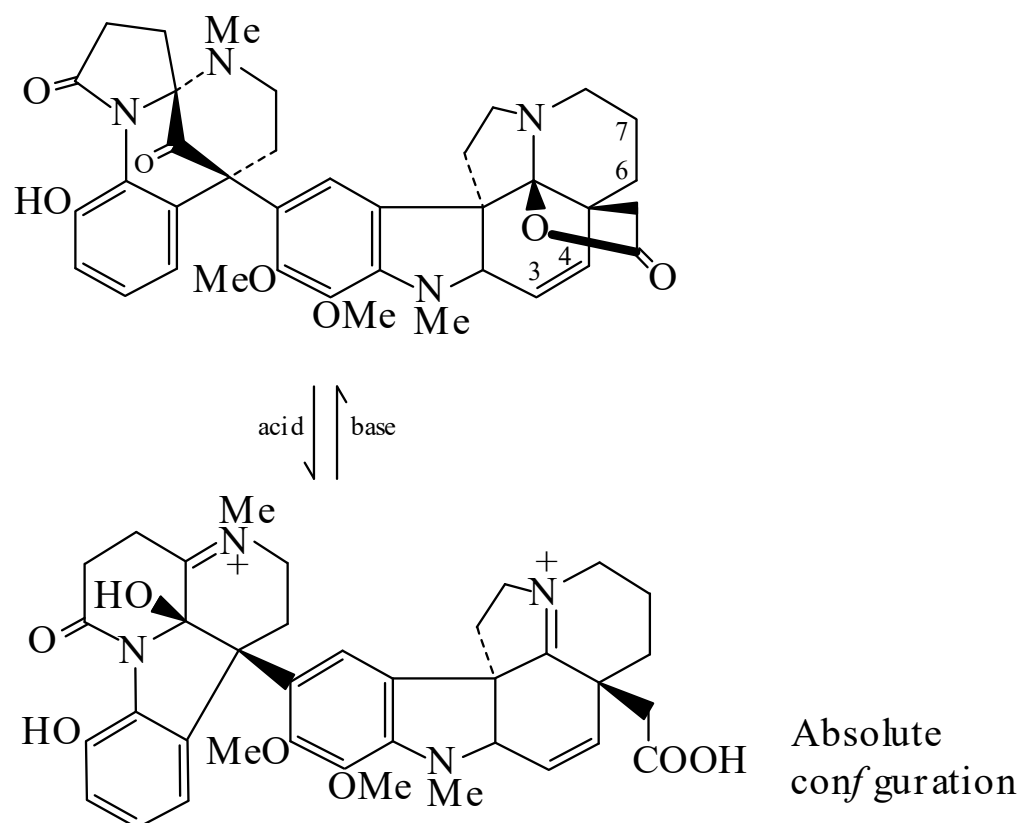




>>Entry Name: Haplophytine



CAS Registry Number: 16625-20-0

Molecular Formula: $C_{37}H_{40}N_4O_7$

Molecular Weight: 652.746

Accurate Mass: 652.289701

Percentage Composition: C 68.08%; H 6.18%; N 8.58%; O 17.16%

Biological Source: Alkaloid from *Haplophyton cimicidum* (Apocynaceae)

Use/Importance: Shows insecticidal props.

Melting Point: Mp 300-302 dec. $^{\circ}$ (darkens from 260 $^{\circ}$, 288-292 $^{\circ}$ dec.)

Optical Rotation: $[\alpha]_D^{25} +109$ (c, 1.3 in $CHCl_3$)

UV: [acid] λ_{max} (no shifts reported) (Derep) [base] λ_{max} 230 (ϵ 48000); 265 (ϵ 14300); 326 (ϵ 5000) (EtOH/NaOH) (Derep) [neutral] λ_{max} 220 (ϵ 48500); 265 (ϵ 14300); 305 (ϵ 4500) (EtOH) (Derep)

>>Derivative: Hydrobromide (1:2)

Melting Point: Mp 200-206 dec. $^{\circ}$

>>Derivative: Me ether

Melting Point: Mp 288-291 dec. $^{\circ}$ (280 $^{\circ}$)

>>Derivative: 3,4-Dihydro, 6,7-didehydro, N^1 -de-Me

Synonym(s): Norisohaplophytine

CAS Registry Number: 87553-35-3

Molecular Formula: $C_{36}H_{38}N_4O_7$

Molecular Weight: 638.719

Accurate Mass: 638.274051

Percentage Composition: C 67.70%; H 6.00%; N 8.77%; O 17.53%

Biological Source: Alkaloid from *Haplophyton cimicidum* (Apocynaceae)

Physical Description: Small needles (EtOH)

Melting Point: Mp 291 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{20} +111.8$ (c, 0.543 in $CHCl_3$)

References:

Rae, I.D. *et al.*, *J.A.C.S.*, 1967, **89**, 3061, (*uv, ir, pmr, ms, cryst struct*)

Yates, P. *et al.*, *J.A.C.S.*, 1973, **95**, 7842, (*isol, uv, ir, pmr, cmr, struct*)

Cheng, P.-T. *et al.*, *Can. J. Chem.*, 1976, **54**, 726, (*cryst struct*)

Adesomoju, A.A. *et al.*, *Heterocycles*, 1983, **20**, 1511, (*Norisohaplophytine*)