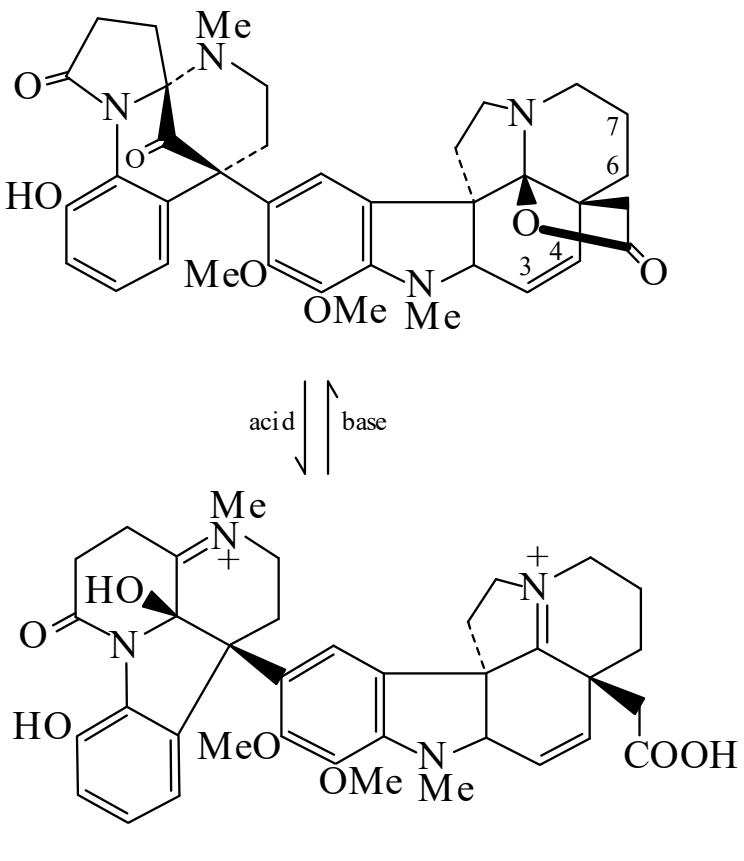
>>**Entry Name: Haplophytine**



Absolute conf guration

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.° (darkens from 260°, 288-292° 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.°

>>**Derivative:** Me ether

Melting Point: Mp 288-291 dec.° (280°)

>>**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.°
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)*