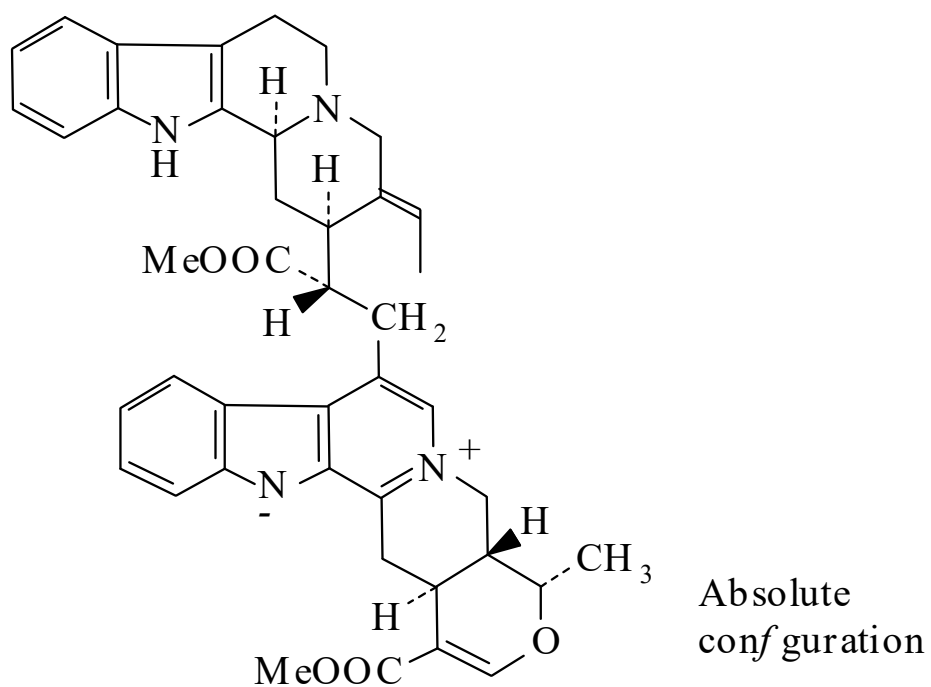




>>Entry Name: Serpentinine



CAS Registry Number: 36519-42-3

Molecular Formula: $C_{42}H_{44}N_4O_5$

Molecular Weight: 684.833

Accurate Mass: 684.331171

Percentage Composition: C 73.66%; H 6.48%; N 8.18%; O 11.68%

Biological Source: Alkaloid from several *Rauwolfia* spp. (Apocynaceae)

Melting Point: Mp 265-270 dec.°

pKa Value: pK_{a1} 6; pK_{a2} 10.6 (66% DMF aq.)

>>Derivative: Hydrochloride (1:2)

Melting Point: Mp 250°

Optical Rotation: $[\alpha]_D^{25} +189$ (c, 0.45 in H_2O)

>>Derivative: Dipicrate

Melting Point: Mp 271-273°

References:

Schlitter, E. *et al.*, *Helv. Chim. Acta*, 1954, **37**, 1912, (*uv, ir*)

Kaneko, H., *Yakugaku Zasshi*, 1960, **80**, 1357; *CA*, **55**, 6511

Gorman, A.A. *et al.*, *Alkaloids (London)*, 1971, **1**, 287, (*uv, ms, pmr*)

Irie, H. *et al.*, *Chem. Comm.*, 1972, 871, (*cryst struct*)