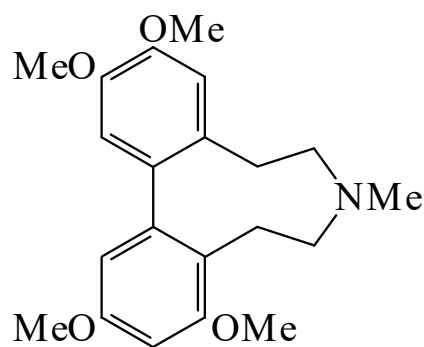




>>Entry Name: Protostephanine

Synonym(s): 6,7,8,9-Tetrahydro-2,3,10,12-tetramethoxy-7-methyl-5*H*-dibenz[*d,f*]azonine, 9Cl



CAS Registry Number: 549-28-0

Molecular Formula: C₂₁H₂₇NO₄

Molecular Weight: 357.449

Accurate Mass: 357.194009

Percentage Composition: C 70.56%; H 7.61%; N 3.92%; O 17.90%

Biological Source: Alkaloid from *Stephania japonica* (Menispermaceae)

Use/Importance: Antihypertensive agent

Physical Description: Cryst. (MeOH)

Melting Point: Mp 73-74° (MeOH solvate). Mp 90-95° (solvent-free)

Calculated Log P Data: Log P 3.68 (calc)

>>Derivative: Hydrochloride

Melting Point: Mp 150 dec.°

>>Derivative: Sulfate

Melting Point: Mp 130-132°

>>Derivative: Picrate

Melting Point: Mp 207-209°

>>Derivative: Methiodide

Melting Point: Mp 220-221°

References:

Barton, D.H.R. *et al.*, *J.C.S.(C)*, 1966, 2313, (*isol*, *pmr*)

Pecherer, B. *et al.*, *J.O.C.*, 1967, **32**, 1053, (*synth*)

Battersby, A.R. *et al.*, *Chem. Comm.*, 1968, 1214; 1974, 773

Pecherer, B. *et al.*, *J. Med. Chem.*, 1969, **12**, 149, (*synth*)

Battersby, A.R. *et al.*, *Tet. Lett.*, 1977, 1321, (*synth*, *biosynth*)

Matsui, M. *et al.*, *Phytochemistry*, 1979, **18**, 1087, (*isol*)

Battersby, A.R. *et al.*, *J.C.S. Perkin I*, 1981, 2002, (*synth*, *uv*, *pmr*, *ms*)