



>>Entry Name: Prometaphanine

Synonym(s): 6,7-Didehydro-8,10-epoxy-3,4,7-trimethoxy-17-methylhasubanan-8-ol, 9Cl

CAS Registry Number: 6858-85-1

Molecular Formula: $C_{20}H_{25}NO_5$

Molecular Weight: 359.421

Accurate Mass: 359.173274

Percentage Composition: C 66.84%; H 7.01%; N 3.90%; O 22.26%

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

Physical Description: Amorph.

>>Derivative: Methiodide

Melting Point: Mp 207°

Optical Rotation: $[\alpha]_D^{10} -32$ (MeOH)

>>Derivative: 16-Oxo

Synonym(s): 16-Oxoprometaphanine. Base P

CAS Registry Number: 58738-31-1

Molecular Formula: $C_{20}H_{23}NO_6$

Molecular Weight: 373.405

Accurate Mass: 373.152539

Percentage Composition: C 64.33%; H 6.21%; N 3.75%; O 25.71%

Biological Source: Alkaloid from the leaves, stems and rhizomes of *Stephania japonica* (Menispermaceae)

Physical Description: Prisms (MeOH)

Melting Point: Mp 195°

Optical Rotation: $[\alpha]_D^{20} -52.3$ (c, 0.5 in $CHCl_3$)

References:

Tomita, M. *et al.*, *Tet. Lett.*, 1964, 3617, (*ir, pmr, struct*)

Matsui, M. *et al.*, *Chem. Pharm. Bull.*, 1975, **23**, 1323, (*isol, deriv*)

Watanabe, Y. *et al.*, *Phytochemistry*, 1975, **14**, 2695, (*uv, ir, pmr, ms, struct, deriv*)

Matsui, M. *et al.*, *Chem. Pharm. Bull.*, 1982, **45**, 497, (*isol, uv, ir, pmr, ms, deriv*)