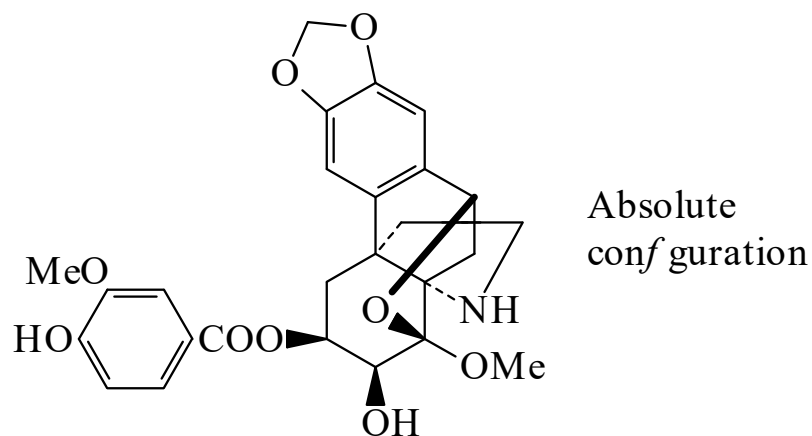




>>Entry Name: Stephavanine

Synonym(s): 8,10-Epoxy-8-methoxy-2,3-[methylenebis(oxy)]hasubanan-6-7-diol 6-(4-hydroxy-3-methoxybenzoate), 9Cl



CAS Registry Number: 33116-33-5

Molecular Formula:  $C_{26}H_{27}NO_9$

Molecular Weight: 497.501

Accurate Mass: 497.168584

Percentage Composition: C 62.77%; H 5.47%; N 2.82%; O 28.94%

Biological Source: Alkaloid from rhizomes of *Stephania abyssinica* (Menispermaceae)

Use/Importance: Antineoplastic agent

Melting Point: Mp 229-230 dec.°

Optical Rotation:  $[\alpha]_D^{32} +30$  (c, 0.90 in Py)

Calculated Log P Data: Log P 0.61 (uncertain value) (calc)

>>Derivative: Hydrochloride

Melting Point: Mp 217-218 dec.°

Optical Rotation:  $[\alpha]_D^{32} +16$  (c, 0.73 in MeOH)

>>Derivative: Hydrobromide

Melting Point: Mp 191-192 dec.°

>>Derivative: *N,O,O*-Tri-Ac

Melting Point: Mp 189-190°

>>Derivative: 7-Trimethylsilyl ether

Melting Point: Mp 201-202 dec.°

>>Derivative: 4'-Me ether

Synonym(s): 4'-*O*-Methylstephavanine

CAS Registry Number: 152013-83-7

Molecular Formula:  $C_{27}H_{29}NO_9$

Molecular Weight: 511.527

Accurate Mass: 511.184234

Percentage Composition: C 63.40%; H 5.71%; N 2.74%; O 28.15%

Biological Source: Alkaloid from roots of *Stephania abyssinica* (Menispermaceae)

Physical Description: Amorph. solid

Melting Point: Mp 187-190 dec.°

Optical Rotation:  $[\alpha]_D^{20} -4$  (c, 0.01 in  $CHCl_3$ )