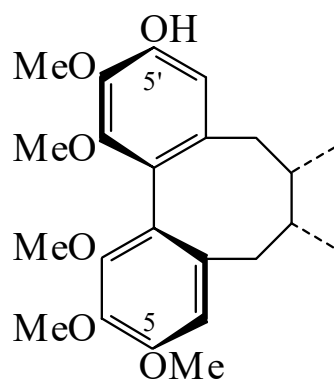




>>Entry Name: Gomisin K1

Synonym(s): 5'-Hydroxy-3,3',4,4',5-pentamethoxy-2,2'-cyclo lignan



CAS Registry Number: 75629-20-8

Molecular Formula: $C_{23}H_{30}O_6$

Molecular Weight: 402.486

Accurate Mass: 402.20424

Percentage Composition: C 68.64%; H 7.51%; O 23.85%

Biological Source: Isol. from fruit of *Schizandra chinensis*

Physical Description: Prisms (Et₂O/hexane)

Melting Point: Mp 99-101°

Optical Rotation: $[\alpha]_D^{23} -96.7$ (CHCl₃)

>>Derivative: Me ether

Melting Point: Mp 113.5-115°

Optical Rotation: $[\alpha]_D -73.2$ (CHCl₃)

>>Derivative: 5-O-De-Me

Synonym(s): Gomisin J

CAS Registry Number: 66280-25-9

Molecular Formula: $C_{22}H_{28}O_6$

Molecular Weight: 388.46

Accurate Mass: 388.18859

Percentage Composition: C 68.02%; H 7.26%; O 24.71%

Biological Source: Isol. from fruits of *Schizandra chinensis* and from *Kadsura coccinea*

Use/Importance: Ca²⁽⁺⁾ antagonist enhancing arterial blood flow

Melting Point: Mp 149-150°

Optical Rotation: $[\alpha]_D -43.9$ (c, 1.0 in CHCl₃)

References:

Ikeya, Y. *et al.*, *Chem. Pharm. Bull.*, 1978, **26**, 682; 1979, **27**, 1583; 1980, **28**, 2422, (*isol, cmr, biosynth*)

Suekawa, M. *et al.*, *Yakugaku Zasshi*, 1987, **107**, 720, (*pharmacol*)

Tanaka, M. *et al.*, *Tetrahedron*, 1995, **51**, 11693, (*synth, Gomisin J*)