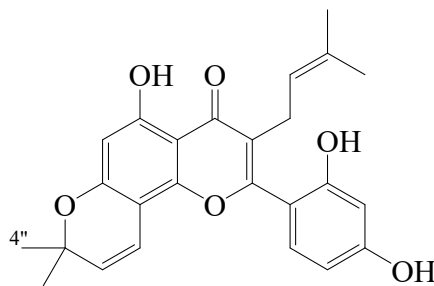




>>Entry Name: Morusin

Synonym(s): 2-(2,4-Dihydroxyphenyl)-5-hydroxy-8,8-dimethyl-3-(3-methyl-2-butenyl)-4*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-4-one, 9Cl. Mulberrochromene



CAS Registry Number: 62596-29-6

Molecular Formula: C₂₅H₂₄O₆

Molecular Weight: 420.461

Accurate Mass: 420.15729

Percentage Composition: C 71.42%; H 5.75%; O 22.83%

Biological Source: Constit. of the root bark of *Morus alba* (mulberry) and other *Morus* spp.

Physical Description: Pale-yellow prisms (Et₂O/hexane)

Melting Point: Mp 214-216°

UV: [neutral] λ_{max} 270 (ε 39800); 320 (); 350 () (MeOH) (Berdy)

>>Derivative: Tri-Ac

Molecular Formula: C₃₁H₃₀O₉

Molecular Weight: 546.573

Percentage Composition: C 68.12%; H 5.53%; O 26.35%

Melting Point: Mp 70-75°

>>Derivative: Tri-Me ether

Molecular Formula: C₂₈H₃₀O₆

Molecular Weight: 462.541

Percentage Composition: C 72.71%; H 6.54%; O 20.75%

Melting Point: Mp 140-146°

>>Derivative: 4''-Hydroxy

Synonym(s): Albanin B

CAS Registry Number: 73343-41-6

Molecular Formula: C₂₅H₂₄O₇

Molecular Weight: 436.46

Accurate Mass: 436.152205

Percentage Composition: C 68.80%; H 5.54%; O 25.66%

Biological Source: Isol. from *Morus alba* infected with *Fusarium solani*

References:

- Nomura, T. *et al.*, *Chem. Pharm. Bull.*, 1976, **24**, 2898
Chari, V.M. *et al.*, *Z. Naturforsch., B*, 1978, **33**, 1547
Takasugi, M. *et al.*, *CA*, 1980, **92**, 160540d, (*Albanin B*)
Hano, Y. *et al.*, *Chem. Pharm. Bull.*, 1984, **32**, 1260, (*cmr*)
Uchida, A. *et al.*, *Acta Cryst. C*, 1996, **52**, 1713, (*cryst struct*)