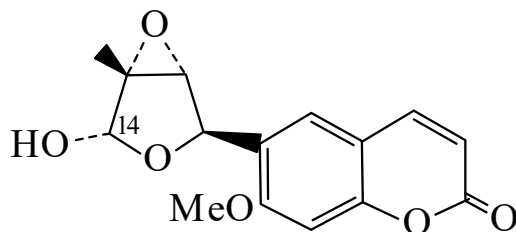




>>Entry Name: Dihydromicromelin A

Synonym(s): Dihydromelin A



CAS Registry Number: 94346-55-1

Molecular Formula: C₁₅H₁₄O₆

Molecular Weight: 290.272

Accurate Mass: 290.07904

Percentage Composition: C 62.07%; H 4.86%; O 33.07%

General Statement: Relative configuration shown

Biological Source: Constit. of *Micromelum minutum*

Physical Description: Gum

>>Derivative: Ac

Synonym(s): Acetyldihydromicromelin A

CAS Registry Number: 94285-22-0

Molecular Formula: C₁₇H₁₆O₇

Molecular Weight: 332.309

Accurate Mass: 332.089605

Percentage Composition: C 61.44%; H 4.85%; O 33.70%

Biological Source: From *Micromelum minutum*

Physical Description: Cryst. (EtOAc/C₆H₆)

Melting Point: Mp 66-68°

>>Derivative: 14-Epimer

Synonym(s): Dihydromicromelin B, Dihydromelin B

CAS Registry Number: 94285-06-0

Molecular Formula: C₁₅H₁₄O₆

Molecular Weight: 290.272

Accurate Mass: 290.07904

Percentage Composition: C 62.07%; H 4.86%; O 33.07%

Biological Source: From *Micromelum minutum*

Physical Description: Gum

>>Derivative: 14-Ketone

Synonym(s): Micromelin, Micromelum

CAS Registry Number: 15085-71-9

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

Biological Source: Constit. of leaves of *Micromelum minutum* and *Micromelum pubescens*

Use/Importance: Antineoplastic agent

Physical Description: Needles (MeOH)

Melting Point: Mp 218-219.5°

Optical Rotation: [α]_D -87.4 (c, 1.8 in CHCl₃)

Calculated Log P Data: Log P 1.22 (calc)

UV: [neutral] $\lambda_{\max}$ 221 (ϵ 9900); 240 (ϵ 6320); 250 (ϵ 3550); 292 (ϵ 9900); 318 (ϵ 15900) (MeOH) (Berdy)

References:

Lamberton, J.A. *et al.*, *Aust. J. Chem.*, 1967, **20**, 973, (*isol*)

Chatterjee, A. *et al.*, *Sci. Cult.*, 1967, **33**, 371; *CA*, **69**, 2887, (*isol*)

Das, S. *et al.*, *Phytochemistry*, 1984, **23**, 2317

Lamberton, J.A. *et al.*, *Aust. J. Chem.*, 1985, **38**, 1025, (*struct*)