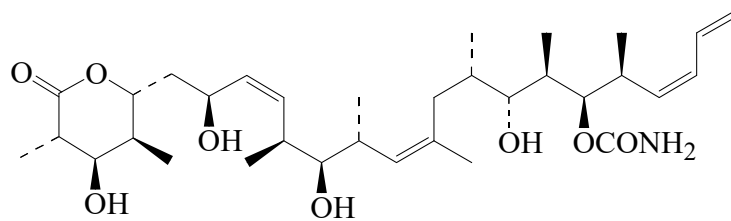




>>Entry Name: Discodermolide



CAS Registry Number: 127943-53-7

Type of Compound Code(s): XA4800 VF5000

Molecular Formula: C₃₃H₅₅NO₈

Molecular Weight: 593.799

Accurate Mass: 593.392769

Percentage Composition: C 66.75%; H 9.34%; N 2.36%; O 21.56%

Biological Source: Constit. of *Discodermia dissoluta*

Biological Use/Importance: Immunosuppressant

Physical Description: Cryst.

Melting Point: Mp 115-116°

Optical Rotation: [α]_D²⁵+7.2 (c, 0.72 in MeOH)

UV: [neutral] $\lambda_{\max}$ 210 (ϵ 35400); 226 (sh) (ϵ 19500); 235 (ϵ 12500) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 235 (ϵ 12500) (MeOH) (Berdy)

References:

Gunasekera, S.P. *et al.*, *J.O.C.*, 1990, **55**, 4912, (*isol, pmr, cmr, cryst struct*)

Longley, R.E. *et al.*, *Ann. N.Y. Acad. Sci.*, 1993, **696**, 94, (*rev, pharmacol*)

Nerenberg, J.B. *et al.*, *J.A.C.S.*, 1993, **115**, 12621, (*synth*)

Smith, A.B. *et al.*, *J.A.C.S.*, 1995, **117**, 12011, (*synth*)

Harried, S.S. *et al.*, *J.O.C.*, 1997, **62**, 6098-6099, (*synth*)

Marshall, J.A. *et al.*, *J.O.C.*, 1998, **63**, 7885-7892, (*synth*)

Smith, A.B. *et al.*, *Org. Lett.*, 1999, **1**, 1823-1826, (*synth*)

Smith, A.B. *et al.*, *J.A.C.S.*, 2000, **122**, 8654-8664, (*synth*)

Paterson, I. *et al.*, *Tet. Lett.*, 2000, **41**, 6935-6939, (*synth*)