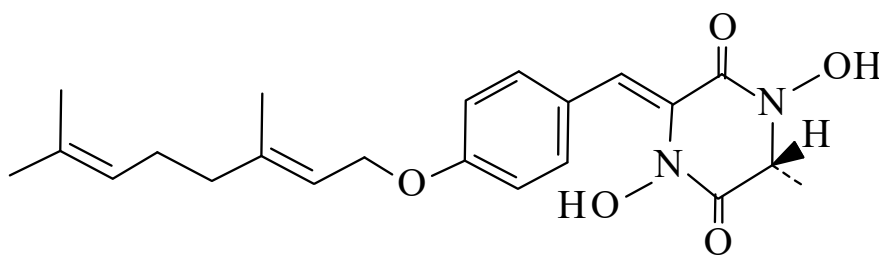




>>Entry Name: Mycelianamide

Synonym(s): 3-[p-[(3,7-Dimethyl-2,6-octadienyl)oxy]benzylidene]-1,4-dihydroxy-6-methyl-2,5-piperazinedione, 8C1



CAS Registry Number: 22775-52-6

Molecular Formula: C₂₂H₂₈N₂O₅

Molecular Weight: 400.474

Accurate Mass: 400.199823

Percentage Composition: C 65.98%; H 7.05%; N 7.00%; O 19.98%

Biological Source: Metab. of *Penicillium griseofulvum*

Use/Importance: Active against gram-positive organisms. Inhibits butyrylcholinesterase

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 170-172 dec.°

Optical Rotation: $[\alpha]_{\text{Hg}}^{19} -217$

Solubility: BERDY SOL: Sol. MeOH, CHCl₃, dioxan, Py, Me₂CO, bases; fairly sol. CHCl₃, C₆H₆, Et₂O, AcOH, EtOAc, H₂O; poorly sol. acids, hexane

UV: [neutral] λ_{max} 234 (ϵ 12000); 325 (ϵ 23500) (MeOH) (Berdy) [neutral] λ_{max} 234 (); 324 () (EtOH) (Berdy)

References:

Birch, A.J. *et al.*, *J.C.S.*, 1956, 3717; 1962, 1502, (*ir, uv, struct, biosynth*)

Brown, R.F.C. *et al.*, *Aust. J. Chem.*, 1968, **21**, 1581, (*synth, ir, uv, nmr*)

Nagasawa, T. *et al.*, *J. Antibiot.*, 1976, **29**, 526, (*isol, props*)

Kirby, G.W. *et al.*, *J.C.S. Perkin I*, 1976, 1564, (*biosynth*)

Shinmon, N. *et al.*, *Chem. Comm.*, 1980, 1020, (*synth*)