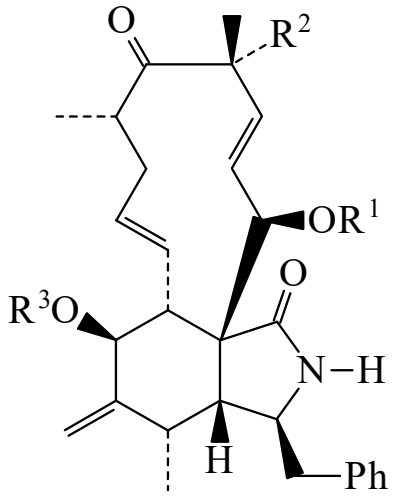
>>**Entry Name: Zygosporin D**



R^1 = H
R^2 = OH
R^3 = H

CAS Registry Number: 25374-67-8

Molecular Formula: $C_{28}H_{35}NO_5$
Molecular Weight: 465.588
Accurate Mass: 465.251524
Percentage Composition: C 72.23%; H 7.58%; N 3.01%; O 17.18%
Biological Source: Prod. by *Zygosporium masonii* and *Metarrhizium anisopliae*
Use/Importance: Antibiotic possessing antitumour and antiinflammatory props.
Physical Description: Plates (MeOH)
Melting Point: Mp 180-190°
Optical Rotation: $[\alpha]_D^{25}$ –15.5 (c, 0.58 in dioxan). $[\alpha]_D$ +20.6 (c, 0.25 in EtOH)
Solubility: BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. H_2O, hexane
Hazard & Toxicity: BERDY HAZD : LD_{50} (mus, ipr) 10 mg/kg

>>**Derivative:** 21-Ac
Synonym(s): Cytochalasin D. Zygosporin A

CAS Registry Number: 22144-77-0

Molecular Formula: $C_{30}H_{37}NO_6$
Molecular Weight: 507.625
Accurate Mass: 507.262089
Percentage Composition: C 70.98%; H 7.35%; N 2.76%; O 18.91%
Biological Source: Metab. of *Metarrhizium anisopliae* and *Hypoxylon terricola*
Use/Importance: Similar to Cytochalasin B CKD17-K
Biological Use/Importance: Shows antibiotic and cytotoxic props. Inhibits lipid droplet formation. Specific cholesteryl ester synthesis inhibitor
Physical Description: Needles (Me_2CO/petrol)
Melting Point: Mp 268-271°
Optical Rotation: $[\alpha]_D^{25}$ –7.5 (c, 0.55 in dioxan)
Calculated Log P Data: Log P 1.54 (uncertain value) (calc)
UV: [neutral] λ_{max} 0 (end) (ε); 286 (ε 330) (MeOH) (Derep)
Hazard & Toxicity: LD_{50} (rat, ipr) 0.9 mg/kg. Exp. teratogen

Aldrich: 85995-8
Fluka: 30385
Sigma: C8273