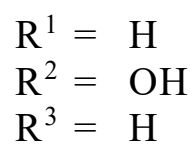
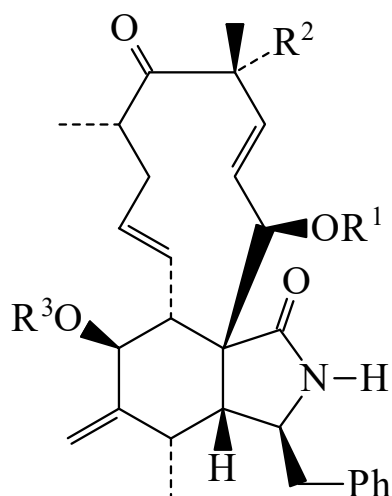




>>Entry Name: Zygosporin D



CAS Registry Number: 25374-67-8

Molecular Formula: C₂₈H₃₅NO₅

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, CHCl₃; poorly sol. H₂O, hexane

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 10 mg/kg

>>Derivative: 21-Ac

Synonym(s): Cytochalasin D. Zygosporin A

CAS Registry Number: 22144-77-0

Molecular Formula: C₃₀H₃₇NO₆

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 (Me₂CO/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] $\lambda_{\max}$ 0 (end) (ε); 286 (ε 330) (MeOH) (Derep)

Hazard & Toxicity: LD₅₀ (rat, ipr) 0.9 mg/kg. Exp. teratogen

Aldrich: 85995-8

Fluka: 30385

Sigma: C8273