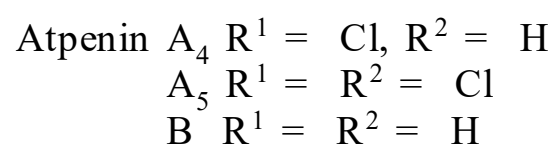
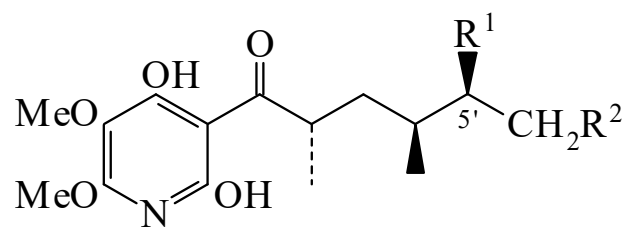




>>Entry Name: Atpenin



General Statement: Antibiotic complex of which 3 components have been isol.

Source/Synthesis: Prod. by *Penicillium* sp. FO-125

Use/Importance: Antifungal agent

>>Variant: Atpenin A₄

CAS Registry Number: 119509-25-0

Molecular Formula: C₁₅H₂₂ClNO₅

Molecular Weight: 331.795

Accurate Mass: 331.118651

Percentage Composition: C 54.30%; H 6.68%; Cl 10.69%; N 4.22%; O 24.11%

Physical Description: Powder

Melting Point: Mp 98°

Optical Rotation: [α]_D²² -8.6 (c, 1 in EtOH)

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O

UV: [acid] λ_{max} 240 (ε 11500); 270 (ε 7500); 318 (ε 7000) (EtOH/HCl) (Derep) [base] λ_{max} 242 (ε 9500); 290 (ε 9600); 355 (ε 4300) (EtOH/NaOH) (Derep) [neutral] λ_{max} 235 (ε 12200); 267 (ε 8400); 320 (ε 5800) (EtOH) (Derep) [neutral] λ_{max} 235 (ε 12200); 267 (ε 8400); 320 (ε 5800) (EtOH) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 50 - 150 mg/kg

>>Variant: Atpenin A₅

Synonym(s): WF 16775A₁. Antibiotic WF 16775A₁

CAS Registry Number: 119509-24-9

Molecular Formula: C₁₅H₂₁Cl₂NO₅

Molecular Weight: 366.24

Accurate Mass: 365.079678

Percentage Composition: C 49.19%; H 5.78%; Cl 19.36%; N 3.82%; O 21.84%

Biological Source: Also prod. by *Chaetobolisia erysiphoides*

Use/Importance: Angiogenesis inhibitor

Physical Description: Needles

Melting Point: Mp 86°

Optical Rotation: [α]_D²² -0.8 (c, 1 in EtOH)

UV: [acid] λ_{max} 240 (ε 11500); 270 (ε 7000); 318 (ε 7000) (EtOH/HCl) (Derep) [base] λ_{max} 242 (ε 9500); 290 (ε 9500); 355 (ε 4300) (EtOH/NaOH) (Derep) [neutral] λ_{max} 236 (ε 16800); 270 (ε 11300); 319 (ε 9500) (EtOH) (Derep)

>>Derivative: 5'-Chloro

Synonym(s): Antibiotic WF 16775A₂. WF 16775A₂

Molecular Formula: C₁₅H₂₀Cl₃NO₅

Molecular Weight: 400.685

Accurate Mass: 399.040705

Percentage Composition: C 44.96%; H 5.03%; Cl 26.54%; N 3.50%; O 19.97%

Biological Source: Prod. by *Chaetobolisia erysiphoides*

Use/Importance: Angiogenesis inhibitor

Physical Description: Needles

Melting Point: Mp 119.5-121°